

<110> Birse et al.

<120> 25 Human Prostate and Prostate Cancer Associated Proteins

<130> PA002P1

<140> unassigned

<141> 2002-01-07

<150> PCT/US00/19666

<151> 2000-07-20

<150> 60/144,972

<151> 1999-07-21

<150> 60/148,681

<151> 1999-08-13

<150> 60/149,173

<151> 1999-08-17

<150> 60/158,004

<151> 1999-10-06

<150> 60/194,689

<151> 2000-04-05

<160> 157

<170> PatentIn Ver. 2.0

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<211> 733

<212> DNA

<213> Homo sapiens

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agaaaaccat	ctccaaagcc	aaagggcagc	cccgagaacc	acaggtgtac	accctgcccc	420
catcccgga	tgagctgacc	aagaaccagg	tcagcctgac	ctgcctggtc	aaaggcttct	480
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ccacgcctcc	cgtgctggac	tccgacggct	ccttcttcct	ctacagcaag	ctcaccgtgg	600
acaagagcag	gtggcagcag	gggaacgtct	tctcatgctc	cgtgatgcat	gaggctctgc	660
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<210> 2

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

Trp Ser Xaa Trp Ser

1

5

<210> 3

<211> 86
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3
 ggcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
 cccgaaatat ctgccatctc aattag 86

<210> 4
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4
 gcggcaagct ttttgcaaag cctaggc 27

<210> 5
 <211> 271
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5
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 aaatatctgc catctcaatt agtcagcaac catagtccccg cccctaactc cgcccatccc 120
 gccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
 ttttgagggc ctaggctttt gcaaaaagct t 271

<210> 6
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>

<221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

<400> 7
 gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 8
 <211> 12
 <212> DNA
 <213> Homo sapiens

<400> 8
 ggggactttc cc 12

<210> 9
 <211> 73
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer with 4 tandem copies of the NF-KB binding site (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

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 ccattctcaat tag 73

<210> 10
 <211> 256
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

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 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggccctagg 240
 cttttgcaaa aagctt 256

<210> 11
 <211> 1200
 <212> DNA
 <213> Homo sapiens

<400> 11
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 gacttcatttt gtgctaacag tacaacagca gatttgggtc aggcttaatc taagtgttaa 180
 ctttttttttc tgggtgctttt ttggattgat gactgtctca ctttgactat acccatgttt 240
 tgcattgcaat gactcatgca tggttttctt aactagctaa tattaacaat ttattccata 300
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 ggtagtgaat gtgtagtgtg ggaataaaga aaagcactaa atcctgccct ttttgtgtgg 540
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 cttcagtcctc cagataggag tgtatccaaa catctaattt tatgtgcact gtgtatctta 720

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ttaaataata	tattccttct	ttataatgct	aaatctatat	gagtaccata	tttttataag	840
tcagtgggtct	gactgggttc	attttagaat	taacagctgc	ttcaatatgt	tattcaatgt	900
taatgtttgg	ctgtgagtag	aatatgtaaa	agtggcatgg	cagcacttat	gctctgtgac	960
agtattgtgt	gtcatagttg	agcagtagct	ggtagaatta	ggcagttggt	gatagtttta	1020
ctttggtaca	aataaaaaact	gtatatctat	atacaataaa	tatatagata	tatatgtcca	1080
ccagtataat	ggcatttgctg	tgtctggcac	ttcattgtac	agacttttat	aataaaaagaa	1140
cttgaaagtt	ctaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa	1200

<210> 12

<211> 1106

<212> DNA

<213> Homo sapiens

<400> 12

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ccccagaagg	gtattcactg	gggattctga	gctttggcta	ctccagtttc	ccacgacacg	180
atgttccctt	tctacagctg	ctggaggact	ggactgctac	tactactcct	ggctgtggca	240
gtgagagaat	cctggcagac	agaagaaaaa	acttgcgact	tggtaggaga	aaagggtaaa	300
gagtcagaga	aagagttggc	tctagtgaag	aggctgaaac	cactgtttaa	taaaagcttt	360
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ggcctgttca	ccagagatct	cccacctcag	tgtgggttcc	atcttacttg	tcacgtgagt	660
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ggtggtacat	aagcacaaa	tgtatgtgta	cattatgctg	taattgatgg	ggataacttt	780
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gcctgtaatc	ccagctactt	gggaggctga	ggcagtagaa	tcacttgaac	ctggggaggtg	1020
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<210> 13

<211> 887

<212> DNA

<213> Homo sapiens

<400> 13

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aatgacctcc	agttcttttag	atacaacagt	aaagacagga	agtctcagcc	catgggactc	240
tggagacagg	tggaaggaat	ggaggattgg	aagcaggaca	gccaaactta	gaaggccagg	300
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<210> 14

<211> 1918

<212> DNA

<213> Homo sapiens

<400> 14

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<210> 15
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<212> DNA
<213> Homo sapiens

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<210> 16
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<212> DNA
<213> Homo sapiens

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<210> 17
 <211> 1098
 <212> DNA
 <213> Homo sapiens

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<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA

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<212> DNA

<213> Homo sapiens

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<211> 1109

<212> DNA

<213> Homo sapiens

<400> 30

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 <211> 2324
 <212> DNA
 <213> Homo sapiens

<400> 31						
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 <212> DNA

<213> Homo sapiens

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<211> 534

<212> DNA

<213> Homo sapiens

<400> 33

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<210> 34

<211> 1756

<212> DNA

<213> Homo sapiens

<400> 34

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<210> 35
<211> 1545
<212> DNA
<213> Homo sapiens

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1545

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<210> 36
<211> 1177
<212> DNA
<213> Homo sapiens

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<220>
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<222> (24)..(24)
<223> n equals a,t,g, or c

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<400> 36
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<210> 37
<211> 1173
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (137)..(137)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1166)..(1166)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1168)..(1168)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1171)..(1171)
<223> n equals a,t,g, or c

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<400> 37
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<210> 38
<211> 1927
<212> DNA
<213> Homo sapiens

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<400> 38
ccacgcgtcc gggccggact gaggtctctta cagtgggtccc tgctggccct tggtagaccgg 60
tcgcctcagt tccgaccggg acccgtaacgc tgctgcgctg acgtgggtccc cggaagtagg 120

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gctggcgtag ggccgccatg ttgcagcagg atagtaatga tgacactgaa gatgtttcac 180
tgtttgatgc ggaagaggag acgactaata gaccaagaaa agccaaaatc agacatccag 240
tagcatcggt tttccactta ttctttcgag tcagtgcaat catcgtctat cttctctgtg 300
agttgctcag cagcagcttt attacctgta tgggtgacaat tatcttggtg ttgtcgtgtg 360
acttttgggc agtgaagaat gtcacaggta gactaatggg tggcctacgt tgggtggaatc 420
acattgatga agatggaaaag agccattggg tgtttgaatc tagaaaggag tcctctcaag 480
agaataaaaac tgtgtcagag gctgaatcaa gaatcttttg gttgggactt attgcctgtc 540
cagtactgtg ggtgataatt gcttttagtg cactcttctc cttcagagta aagtggttgg 600
cgggtggttat catgggtgtg gtgctacaag gtgccaacct gtatggtaca tcaggtgtaa 660
ggtgcgcagc agaaagcatt taaccagcat ggctacttca tattttggaa agcagttttt 720
aagacaaaaa actggagatg atcagacttc ctgaatagag aaagcttatg tgctttgtta 780
cattggggaa caactgaaga gattcttgac tcaacctttt agagcttagt ccatgttgca 840
acgaggagtg ttggctttgt ttttccactt aaaaacttta tttataaaaa ggaaaagtag 900
ttttcatatt aagtttttat ttcttttcca gcagttgggg ctagaaagta tgtgttgga 960
ctagaaacat tgtcaagatt tgttctgtgg tgtagggtat cacattccat aggtatgcac 1020
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gagacctttg cattttgatc catagaacat aggaggatgt tcttagtctg tctcaaagct 1140
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accactaaaa gagcattatt ctcatgtcat aatgagaata ataatttaca tacttggcat 1560
aataaatgcc taaaagacat tttattttct gaatctattt ttttcttgct ataattggga 1620
tattgtaaat tatgcatttg tattaatggg atttctttaa gcaatctatg taactgtaaa 1680
ttaaaccaat ctacaaacta ttgtaggcat ctgtaaattc tggtgtagggt attataaact 1740
ttgttgaagt cttaatcagc agattatgtt gtgaatatat ttgtacattg ttaaaatagt 1800
ttttaagatt atttgtttta ttgaataagt gtcttattgg agtgatagct ttgaagggtc 1860
aaaactttat atttgtataa aatttacta tttacaaggc aaaaaaaaaa aaaaaaaaaa 1920
aaaaaaa 1927

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```

<210> 39
<211> 532
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (467)..(467)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (513)..(513)
<223> n equals a,t,g, or c

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<400> 39
ggcagagccc ccacctgccg gagctgatcc tccctaggcc ctgcctaacc ttgagttggc 60
ccccaatccc tctggctgca gaagtcccct taccaccaat gagaggaggg gcaggaccag 120
atctttttgag agctgagggt tgagggcatt gagccaacac acagatttgt cgcctctgtc 180
cccgaagaca cctgcaccct ccatgcgggc caagatgggg aatggaactg aggaagatta 240
taactttgtc ttcaagggtg ctatcgtggg gcagtggggg ccctcctggt gtttgacctt 300
accaagcacc agacctatgc tgtgggtggg cgatggctga aggagctcta tgaccatgyt 360
gaagccacga tcgtcgtcat gctcgtgggt aacaaaatga cctyagccag gcccgggaag 420
tgcccatgag gagggccgaa tttcgttgaa aacaatggat gttttcntga gactcagcct 480
ggatttacca tgttgagtag ctttgagatt tcngaagaaa ttttgcgagt tt 532

```

```

<210> 40
<211> 1129
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (807)..(807)

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<223> n equals a,t,g, or c

<400> 40

cagctcgwcc	tctgcttcct	tacagcacc	ccacctgcca	gagctgatcc	tccctaggcc	60
ctgcctaacc	ttgagttggc	ccccaatccc	tctggctgca	gaagtcccct	tacccccaat	120
gagaggagg	gcaggaccag	atcttttgag	agctgagggt	tgagggcatt	gagccaacac	180
acagatttgt	cgctctgtgc	cccgaagaca	cctgcaccct	ccatgcggas	caagatgggg	240
aatggaactg	aggaagatta	taactttgtc	ttcaagggtg	tgctgatcgg	cgaatcaggt	300
gtggggaaga	ccaatctact	ctcccgaattc	acgcgcaatg	agttcagcca	cgacagccgc	360
accaccatcg	gggttgagtt	ctccaccgcg	actgtgatgt	tgggcaccgc	tgctgtcaag	420
gctcagatct	gggacacagc	tggcctggag	cggataccgag	ccatcacctc	ggcgtactat	480
cgtggtgcag	tgggggcccct	cctgggtggtt	gacctaacca	agcaccagac	ctatgctgtg	540
gtggagcgat	ggctgaagga	gctctatgac	catgctgaag	ccacgatcgt	cgtcatgctc	600
gtgggtaaca	aaagtgacct	cagccaggcc	cgggaagtgc	ccactgagga	ggcccgaatg	660
ttcgctgaaa	acaatggact	gctcttccctg	gagacctcag	ccctggactc	taccaatggt	720
gagctagcct	ttgagactgt	cctgaaagaa	atctttgcga	aggtgtccaa	gcagagacag	780
aacagcatcc	ggaccaatgc	catcacntct	ggcagtgcgc	aggtgtggaca	ggagcctggc	840
cctggggaga	agagggcctg	ttgcatcagc	ctctgacctt	ggccagcacc	acctgcccc	900
actggctttt	tgggtgccct	tgccccact	tcagccccag	gacctttcct	tgcccttttg	960
ttccagatat	cagactgttc	cctgttcaca	gcacctcag	ggtcttaagg	tcttcatgcc	1020
ctatcacaaa	tacctctttt	atctgtccac	ccctcacaga	ctaggacctt	caaataaagc	1080
tgttttatat	caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		1129

<210> 41

<211> 553

<212> DNA

<213> Homo sapiens

<400> 41

tctcaccct	cggagacgct	cgcccgacag	catagtactt	gccgccagc	cacgcccgcg	60
cgccagccac	catgctaggt	aacaagcgac	tggggctgtc	cggactgacc	tcgccctgtc	120
cctgctcgtg	tgcctgggtg	cgttggccga	ggcgtacccc	tccaagccgg	acaaccggg	180
cgaggacgca	ccagcggagg	acatggccag	atactactca	gcgctgcgac	actacatcaa	240
cctcatcacc	aggcagagat	atggaaaaacg	atctagecca	gagacactga	tttcagacct	300
cttgatgaga	gaaagcacag	aaaatgttcc	cagaactcgg	cttgaagacc	ctgcaatgtg	360
gtgatgggaa	atgagacttg	ctctctggcc	ttttcctatt	ttcagcccat	atttcatcgt	420
gtaaaacgag	aatccaccga	tcctaccaat	gcattgcagcc	actgtgctga	attctgcaat	480
gttttccttt	gtcatcattg	tatatatgtg	tgttttaata	aagtatcatg	cattcaaaaa	540
aaaaaaaaaa	aaa					553

<210> 42

<211> 599

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (583)..(584)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (599)..(599)

<223> n equals a,t,g, or c

<400> 42

aattcggcac	gagtctcacc	cctcggagac	gctcgcccga	cagcatagta	cttgccgccc	60
agccacgccc	gcgcgccacc	accatgctag	gtaacaagcg	actggggctg	tccggactga	120
ccctcgccct	gtccctgctc	gtgtgcctgg	gtgcgctggc	cgaggcgtag	ccctccragc	180
cggacaaccc	gggcgaggac	gcaccagsgg	agggacatgg	ccagatacta	ctcrgcgtg	240
cgacactaca	tcaacctcat	caccaggcag	agatatggaa	aacgatcyag	cccagagaca	300
ctgatttcag	acctottgat	gagagaaaagc	acagaaaatg	ttcccagAAC	tgggcttgaa	360
gaccctgcaa	tgtgggtgatg	ggaaatgaga	cttgctctct	ggccttttcc	tattttcagc	420
ccatatttca	tctgtgtaaaa	cgagaatcca	cccatcctac	caatgcatgc	agccactgtg	480
ctgaattctg	caatgttttc	ctttgtcatc	attgtatata	tgtgtgttta	aataaagtat	540
catgcattca	aaaaaaaaaa	aaaaawaaaa	aaaaaaaaaa	acnnngggggg	gggccccgn	599

<210> 43
 <211> 1077
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (523)..(523)
 <223> n equals a,t,g, or c

<400> 43
 acccacgcgt ccgagagtcc accttgcgac cgtatccgct agcgcggcct gggatgcgct 60
 tgggctccct gttcgttccc acatgcaggg cagcacaagg agaatgggcg tcatgactga 120
 tgtccaccgg cgcttcctcc agttgctgat gacccatggc gtgctagagg aatgggacgt 180
 gaagcgcttg cagacgcact gctacaaggc ccatgaccgc aatgccaccg tagataagtt 240
 ggaggacttc atcaacaaca ttaacagtgt cttggagctc ttgtatattg agataaagag 300
 aggagtcacg gaagatgatg ggagacccat ttatgcgttg gtgaatcttg ctacaacttc 360
 aattttccaaa atgggtacgg attttgcaga gaatgaactg gatttgttta gaaaggctct 420
 ggaactgatt attgactcag aaaccggcct tgcgtcttcc acaaacatat tgaacctggg 480
 tgatcaactt aaaggcaaga agatgaggaa gaaggaagcg gancaggtgc tgcagaagtt 540
 tgttcaaaac aagtggctga ttgagaagga aggggagttc accctgcacg gccggggccat 600
 cctggagatg garcaataca tccgggagac gtaccccgac gcggtgaaga tctgcaatat 660
 ctgtcacagc ctctcatcct agggctcaaa ctgcgaaacc tgtgggatca ggatgcactt 720
 accctgcgtg gccaaagtact tccagtcgaa tgctgaaccg cgctgcccc actgcaacga 780
 ctactggccc cagcagatcc caaaagtctt cgaccctgag aaggagaggg agtctgggtg 840
 cttgaaatcg aacaaaaagt cctgcggtcc aggcagcatt agccatcgtg ccctgctgag 900
 gggctggctg ccttgagtgg cctgatcgcc acagcccttc ttggaagaaa ggcgtcygtg 960
 tttcagggtc cagcgcagtc acctctttcg tcttaatgtt caccgtccac agctttggaa 1020
 taaacctatc tgggaagttr aaaaaaaaaa aaaaaaaaaa tttggggggg gggggccc 1077

<210> 44
 <211> 1904
 <212> DNA
 <213> Homo sapiens

<400> 44
 gctaagctgc agtgatgttg cctatatatta aattttctca aatggccaag ctctgatgg 60
 ctactttatt tgagcaatag ttgagactta attgcctata aataaacaac caaatgamct 120
 atttgttttt ttttctcaca acatctggcc tatattgtct gtcaggargc catggctcca 180
 atgtaaagta catagtctct acatactttc aactgcagct ggctccctgac ctccaccagg 240
 wtcagagatg ttctwaaagg aagccagctg tggcagggtca cagattcatg ggaaatggaa 300
 agaaccaagg aatatagctc ttgcctcacc tttctaccca ctgcagatat agttcaagcc 360
 agagtaatgg aagaacttaa cttactagcc tctcaggctg ctccctatccc tacctcccag 420
 tgtacagccc ctccccatct ctttagtccc ctttccctca ctcccccttt tataatgtca 480
 cacaaatcag ggacagtagg atcacattat aacctacttt gtcataggga ttctgattttt 540
 cttatatcaa atcatgtttc ctgaaaccca gctggggcat atgcactcaa tgtctaatac 600
 atacttatta atgtaccgga tattggcctt gcccttgat atcagcaata tattataaaa 660
 ggttccagta gatgagacga ttgagtctga atacaattgc agtaaattgt gccaataaag 720
 atattgtact gttacggtct tagagttaaa gccgcttgaa tgcagcatgc acattcatgt 780
 aaacagacaa tcagggtagg cctagaataa ccacaaaaat tctattggcc ttactgcagc 840
 cacctatatg tgaacaatg gaggagatag tttgtggtcc attattgtac cctgtttcat 900
 ccattagcat cagaatctct ctttcaggctc atttattaaa tatgattgaa atgtttaaaa 960
 gttcctgaac atgattcatg atgattaaaa tatcatacaa ctgataaaaag actttaagaa 1020
 ctttatatat ttctgtttgc ctcaaaatgt aacagaaatt attcttagag ctttgatttt 1080
 agctatccta attactgcaa ataaatattt gttcttatag ttttaaatca aaaagaaaag 1140
 tcttgttata aaaccttaag cttgaaatca tattaataaa atrtattgta catagtggaa 1200
 aattttcagt agctaattta aaatttcaga aaatgctatt aaagaatttt gattcaagta 1260
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 gtgtgcctgc tcagaaaaac atatactgta tgtgtatata tacctgtgta tatataaaaag 1440
 gtcaatttat atatttttct ataggaaaaat ggagtaacaa gttccctatc tcccatatct 1500
 atttgtccat agtaaaaatgg ccacattgat gataatttct agaactagtt tctgagattg 1560
 tcagcccttt gtctaaaata atggcagtat taatgattga cttctgtcac tgccatagtt 1620
 acctggattg tcagccttgg tagcctttgt ctaaagtcct aaagagttcc aaaaaaaatg 1680
 tgttgaaatt taattgctaa atagtggttg gtgattcttt acagtaggaa ttgtaataat 1740

tttcttgcaa	ataagttatt	tactgctatt	gatattgaat	aattttgtctt	ttatttcagat	1800
atattttcaaa	aagcatgaat	atatgattat	tcataaattg	tatactttac	cagtaagttt	1860
tcagaggaaa	taaagacttt	taaatccttt	tcaaaaaaaaa	aaaa		1904

<210> 45
 <211> 1625
 <212> DNA
 <213> Homo sapiens

<400> 45	caagaacaaa	tctgaaggag	gcctctgaca	tcaagcttga	accaaatacg	ttgaatggct	60
	ataaaagcag	tgtgacggaa	ccttgccccg	acagtgggtga	acagctgcag	ccagctcctg	120
	tgctgcagga	ggaagaactg	gctcatgaga	ctgcacaaaa	aggggaggca	aagtgtcata	180
	agagtgcac	aggcatgtcc	aaaaagaagt	cacgacaagg	aaaacttgtg	aaacagtttg	240
	caaaaataga	ggaatctact	ccagtgcacg	attctccttg	aaaagacgac	gcggtaccag	300
	atgtgatggg	tccccattct	gaccaggggtg	agcacagtgg	cactgtgggc	gtgcctgtga	360
	gctacacaga	ctgtgctcct	tcacccgtcg	gttggttcagt	tgtgacatca	gatagcttca	420
	gaacaaaaga	cagctttaga	actgcaaaaa	gtaaaaagaa	gaggcgaatc	acaagggtatg	480
	atgcacagtt	aatcctagaa	aataactctg	ggattcccaa	attgactctt	cgtaggcgtc	540
	atgatagcag	cagcaaaaac	aatgaccaag	agaatgatgg	aatgaactct	tccaaaataa	600
	gcatcaagtt	aagcaaaagac	catgacaacg	ataacaatct	ctatgtagca	aagcttaata	660
	atggatttaa	ctcaggatca	ggcagtagtt	ctacaaaatt	aaaaatccag	ctaaaacgag	720
	atgaggaaaa	taggggggtct	tatacagagg	ggcttcatga	aaatgggggtg	tgctgcagtg	780
	atcctctttt	tctcttgagg	tctcgaatgg	aggtggatga	ctatagtcag	tatgaggaag	840
	aaagtacaga	tgattcctcc	tcttctgagg	gcgatgaaga	ggaggatgac	tatgatgatg	900
	actttgaaga	cgatttttatt	cctcttcctc	cagctaagcg	cttgagggtta	atagttggaa	960
	aagactctat	agatattgac	atttcttcaa	ggagaagaga	agatcagtct	ttaaggctta	1020
	atgcctaagc	tcttggtctt	aacttgacct	gggataacta	ctttaagaa	ataaaaaatt	1080
	ccagtcaatt	attcctcaac	tgaaagttta	gtggcagcac	ttctattgtc	ccttcactta	1140
	tcagcatact	attgtagaaa	gtgtacagca	tactgactca	attcttaagt	ctgatttgtg	1200
	caaattttta	tcgtactttt	taaatagcct	tcttacgtgc	aattctgagt	tagaggtaaa	1260
	gccctgttgt	aaaataaagg	ctcaagcaaa	attgtacagt	gatagcaact	ttccacacag	1320
	gacgttgaaa	acagtaattgt	ggctacacag	tttttttaac	tgtaagagca	tcagctggct	1380
	ctttaatata	tgactaaaca	ataatttaaa	acaaatcata	gtagcagcat	attaagggtt	1440
	tctagtatgc	taatatcacc	agcaatgac	tttggtttt	tgattttatt	gctagatgtt	1500
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	ctttgttaat	atcgcaaac	attggttggg	agtcagattg	gtttcttaaa	aaaaaaaaaa	1620
	aaaaa						1625

<210> 46
 <211> 593
 <212> DNA
 <213> Homo sapiens

<400> 46	gatgcagttt	gcttggcaga	gctataagcg	ttatgcaatg	gggaaaaacg	aactccgtcc	60
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	tgactccctc	gataccctct	acctcatgga	gctgaaggag	gagttccagg	aggccaaggc	180
	ctgggtggga	gagagcttcc	acctgaacgt	gagcggagaa	gcaccccttg	ttgaggtgaa	240
	catccgctac	atcgggggac	tcctctcagc	cttctacctg	acaggagaag	aggtgttccg	300
	aataaaggcc	atcaggcttg	gagagaagct	cctgccggcg	ttcaacaccc	ccacgggaat	360
	cccaaagggc	gtggtagact	tcaaaagtgg	gaactggggc	tgggccacag	ccggcagcag	420
	cagcatcttg	gcggagtttg	gatccctgca	cttgggaattc	ttacacctca	ctgaactctc	480
	tggcaaccag	gtcttcgctg	aaaaggctcag	gaacatccgc	aaggctcctca	ggaagwtcga	540
	aaagcccttt	ggcctytact	ccaactkagm	catggtgttg	caaacagatc	ccc	593

<210> 47
 <211> 1792
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (487)..(487)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1306)..(1306)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1686)..(1686)
 <223> n equals a,t,g, or c

<400> 47
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 cattacaata ataatgaaaa tagcactagt aatttgtaac actgaggccc aaagggaac 120
 ccctcctcaa attataaggt aaatgacaca aagttgaaca tagggtcagt gttgggcaaa 180
 aagcatttaa aatatagata acgggggtcaa gattttgtgt gtgtgcaaac actgggtttt 240
 gtttttcagg atgacacccat ttttagaaagt gcatgatttt gaaaactata tgtgtaattg 300
 tgacaaaact aaactgtaga gaaaagacaa aatcaagcaa aaacaaaaac caagaaacca 360
 aaaggaagca aatcaaatac aaggggcgga tatgcaaacc tccggtcctt tggccctgga 420
 atggcaagtg agtgggcttc atagaaattc tctgtagaaa ggaatgtgtg ggccagtgtg 480
 gccatgnccc tggcctgaca tcgctgagtc tccaagtcct gtctcctcac agaggaaaag 540
 aagttgcctt tccgacacat ctgctggggg tctgcccag atggggcctt cgttcccaat 600
 ccctttgaga acagtctcaa atcctgaaaa ggcaaggcat cctgcggcgg cccagggcg 660
 gcggcaggag atggggtcag tgtctgcccc agctctgccc gagctgtctg agtggttcac 720
 cgggagtggg tgggcctcgg tgttgaacac ccagtcttcc agggagagca agtcatcttc 780
 agagaacaga agatagagat acttttagtgt ctccgctaga aagaagctct gctgcttggt 840
 gtcgtggttg ggggtgctac tgtacacgtc ttggatccca gagaaaccgg cttctgtccg 900
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 ggtctgtcgc cacaggtaaca tgtagctctc caccacctct ggccggagga tgtagtartc 1020
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 agtttggtgt ctgagcggcg gtatgactcg tgacacgtct tgggtatctg ggctgcgagc 1140
 tctcggtagt gggccctctt ttcttctctg gcctcctcgg gccaaaggcg atcatgcccc 1200
 cgagagaaaca ggccaggtgc cccatcttgt ggtccagaat cccccctcgc cactcggcaa 1260
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 tcgtagtaca tatttttagc ctccatatct gtcttgccc acatcaacca ggatttgatc 1380
 aaatattcat aaaaactgtc cccgagtcct ccaactgaga catggtgttg caccagttc 1440
 ccactcactg ggctgaggaa gttggggtag aggccaaagg gcttttcgat cttcctgagg 1500
 accttgcgga tgttcctgac cttttcagcg aagacctggt tgccagagag ttcagtgagg 1560
 tgtaagaatt ccaagtgcag ggatccaaac tccgccaaaga tgctgctgct gccggctgtg 1620
 gccagcccc agttcccact tttgaaagtc accacgccct ttgggattcc cgtgggggtg 1680
 ttgaangccg gcaggagctt ctctcccagc ctgatggcct ttattcggaa cacctcttct 1740
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<210> 48
 <211> 785
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (704)..(704)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (746)..(746)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (753)..(753)
 <223> n equals a,t,g, or c

<400> 48
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<210> 49

<211> 1433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (893)..(893)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (947)..(947)

<223> n equals a,t,g, or c

<400> 49

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<210> 50

<211> 652

<212> DNA

<213> Homo sapiens

<400> 50

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<210> 51
 <211> 2541
 <212> DNA
 <213> Homo sapiens

<400> 51						
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 <211> 701
 <212> DNA
 <213> Homo sapiens

<400> 52						
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acactccagc	atatcgggtg	agtttttagg	atgtgtatga	atatttaaat	cttttaattt	240
cagttttta	gaaagctgaa	cttaataggg	aaagctagct	cttggtaact	agcaatgatc	300

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atrrcatatt aatttagaaa attcctgtgt ttactttatat tttaaattgt gaaatggatc 480
caatcattag aacagagaga atagttcttt gaaactgaaa tacttttagt ttactgacct 540
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<210> 53
<211> 375
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (153)..(153)
<223> n equals a,t,g, or c

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<220>
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<222> (313)..(313)
<223> n equals a,t,g, or c

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caacgctaac acggg 375

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<210> 54
<211> 1146
<212> DNA
<213> Homo sapiens

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<400> 54
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<210> 55
<211> 2299
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature

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<222> (179)..(180)

<223> n equals a,t,g, or c

<400> 55

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<210> 56

<211> 2259

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2213)..(2213)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2242)..(2242)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2247)..(2247)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2250)..(2250)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2253)..(2253)
 <223> n equals a,t,g, or c

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 cctctgaggg agttcccacaa tctgaagggg aagaggggtga cctcagcggc ttttctccca 1560
 aaaatcggct gaaggctggt tgtggatcct tgttctctc ctgaccccat ctggctgctg 1620
 ccccgctctc caccctgtc cccggggctc gctggccctg cactccgct tagtccctgg 1680
 gccggcgaca cagtgggggc tcctcacttg ctgcagtgtc atagcaataa aatgtgattc 1740
 ttgggtcccc cccagggagc tgcccatggc tttatttatg aacctggttt tcgggagtca 1800
 ggggaggaga tgactttgct tctgtgcaca gccccgtctt ccaggagcca cgactcagaa 1860
 gaaaagggtg ctcagacttt tgttatacac atttgctttg tgtaaataaa tgtttacaat 1920
 tttatatgaa agatggaata agcgctagag ctccaactg tatatttttt acttttatag 1980
 attttaaaac tatgatcctt tatatgtgtg ttttggggga gctatgataa gttttatggc 2040
 aaacggttgg tattgttaac tttttattgt catcaaaagt tcataaaagt cctattaatc 2100
 cccatattct tctactgcc ttaactctgg tatacccaa aaagaaatct ttactttcct 2160
 tgttttatca ttataaaaat aaagtatttt gctagtatgg aaaaaacctt tgnatttgac 2220
 gtcacctggg gtctgctggc anaaagnttn ggngaattgg 2259

<210> 57
 <211> 1325
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1302)..(1302)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1313)..(1313)
 <223> n equals a,t,g, or c

<400> 57
 ttaaaacaag atacatacat agtataacac acctcacagt gttaagattt atattgtgaa 60
 atgagacacc ctaccttcaa ttgttcatca gtgggtaaaa caaattctga tgtacattca 120

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ggacaaatga ttagccctaa atgaaactgt aataatttca gtggaaactc aatctgtttt 180
taccttttaa cagtgaatgt tacatgaatg aatgggttct tcactttttt tttagtatga 240
gaaaattata cagtgcctaa ttttcagaga ttctttccat atgttactaa aaaatgtttt 300
gttcagccta acatactgag ttttttttaa ctttctaaat tattgaatgt ccatcatgca 360
ttcatccaaa attaaggcag actgttttga ttcttccagt gccagatga gctaaattaa 420
atcacaaaag cagatgcctt tgtatgatct ccaaattgcc aactttaagg aaatattctc 480
ttgaaattgt ctttaaagat cttttgcagc tttgcagata ccagactga gctggaactg 540
gaatttgtct tcctattgac tctacttctt taaaagcggc tgccattac attcctcagc 600
tgtccttgca gttaggtgta catgtgactg agtgttgagg agtgagatga agtctctca 660
aaggaaggca gcatgtgtcc tttttcatcc ctcatcttg ctgctgggat tgtggatata 720
acaggagccc tggcagctgt ctccagagga tcaaagccac acccaaagag taaggcagat 780
tagagaccag aaagaccttg actacttccc tecttccact gctttttcct gcattkaagc 840
cattgtaaat ctgggtgtgt tacatgaagt gaaaattaat tctttctgcc cttcagttct 900
ttatcctgat accatttaac actgtctgaa ttaactagac tgcaataatt ctttcttttg 960
aaagctttta aaggataatg tgcaattcac attaaaattg attttccatt gtcaattagt 1020
tatactcatt ttctgcctt gatctttcat tagatatttt gtatctgctt ggaatatatt 1080
atcttctttt taactgtgta attggtaatt actaaaactc tgtaatctcc aaaatattgc 1140
tatcaaatta cacaccatgt tttctatcat tctcatagat ctgccttata aacattttaa 1200
taaaaagtac tatttaatga ttaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaaag gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa angggggggg ggnccaaaaa 1320
aaaaa
1325

```

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<210> 58
<211> 832
<212> DNA
<213> Homo sapiens

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<400> 58
gcgtcgacat agaattgaag ttgctcgta gctgattgaa gataaggaga ttggcctgga 60
ttatccaggt aggtcctaat taatcaggaa gggcctttta agtgagagag ggagsgagaa 120
gaggaagtca gagcgatgtg ctgtgaaatc tactaccgtt tgctggtttt gaaaatggag 180
aaaaagagtg aggaactgag aaacatggat ggccttgagg acgtggaaaa gggtcactga 240
aatgggacga catgaactca aggaggctat ttatgaccat gtcatttgca acatgaagaa 300
agcttatctg gagtgaaagt aaatgagacc aacagagatr agagaccgg agaaatcctg 360
gttacactgc ttgaatcctg tcagtcctat actggagtcc tgtaataaca aaataatagt 420
aataatccct ctgtttctta tgtttatgcc aacttcaaca aaaagaaact tgactaagag 480
acaatataag aayttaatgt gtaattaaga aagaactctc caccacgggg aatgtgaaag 540
gtatatgagt cccttttcac gatgcgatgt catgtctttt aaataagcca tactttatgt 600
tcaataaaaa gagaataaagc aggatcgcg agagaacaca atcccttttt aactgctggg 660
aagatacytt tagtcattaa tgrctggacg acaatttggg rcacmtatat ggatattggc 720
cggtttgtga tgatgtgatt gggcctctaa gtgacaacat tgttccctgt atagagttag 780
tggaagtgc atttataaaa ttggccatca tggctgttaa atttaaaaaa aa 832

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<210> 59
<211> 132
<212> DNA
<213> Homo sapiens

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<400> 59
cttgagcccc tgagttgtgg gggtaggggtg aagagcatat cccacaagag gccccacagg 60
gagcagagac tgctttaatc cctgctgaca tcacggaaaa gcaacagagc cttttcaact 120
ttgtcactat gt
132

```

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<210> 60
<211> 54
<212> PRT
<213> Homo sapiens

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<400> 60
Met Ala Phe Leu Gln Val Leu Ser Arg Tyr His Ser Ala Asn His Cys
1           5           10           15

Tyr Arg Met Val Thr Ser Phe Val Leu Thr Val Gln Gln Gln Ile Trp
20           25           30

Val Arg Leu Asn Leu Ser Val Asn Phe Phe Phe Trp Cys Phe Phe Gly

```

35

40

45

Leu Met Thr Val Ser Leu
50

<210> 61
<211> 117
<212> PRT
<213> Homo sapiens

<400> 61
Met Phe Pro Phe Tyr Ser Cys Trp Arg Thr Gly Leu Leu Leu Leu Leu
1 5 10 15
Leu Ala Val Ala Val Arg Glu Ser Trp Gln Thr Glu Glu Lys Thr Cys
20 25 30
Asp Leu Val Gly Glu Lys Gly Lys Glu Ser Glu Lys Glu Leu Ala Leu
35 40 45
Val Lys Arg Leu Lys Pro Leu Phe Asn Lys Ser Phe Glu Ser Thr Val
50 55 60
Gly Gln Gly Ser Asp Thr Tyr Ile Tyr Ile Phe Arg Val Cys Arg Glu
65 70 75 80
Ala Gly Asn His Thr Ser Gly Ala Gly Leu Val Gln Ile Asn Lys Ser
85 90 95
Asn Gly Lys Glu Thr Val Val Gly Arg Leu Asn Glu Thr His Ile Phe
100 105 110
Asn Gly Arg Gln Phe
115

<210> 62
<211> 183
<212> PRT
<213> Homo sapiens

<400> 62
Met Val Arg Met Val Pro Val Leu Leu Ser Leu Leu Leu Leu Leu Gly
1 5 10 15
Pro Ala Val Pro Gln Glu Asn Gln Asp Gly Arg Tyr Ser Leu Thr Tyr
20 25 30
Ile Tyr Thr Gly Leu Ser Lys His Val Glu Asp Val Pro Ala Phe Gln
35 40 45
Ala Leu Gly Ser Leu Asn Asp Leu Gln Phe Phe Arg Tyr Asn Ser Lys
50 55 60
Asp Arg Lys Ser Gln Pro Met Gly Leu Trp Arg Gln Val Glu Gly Met
65 70 75 80
Glu Asp Trp Lys Gln Asp Ser Gln Leu Gln Lys Ala Arg Glu Asp Ile
85 90 95
Phe Met Glu Thr Leu Lys Asp Ile Val Glu Tyr Tyr Asn Asp Ser Asn
100 105 110

Gly Ser His Val Leu Gln Gly Arg Phe Gly Cys Glu Ile Glu Asn Asn
 115 120 125
 Arg Ser Ser Gly Ala Phe Trp Lys Tyr Tyr Tyr Asp Gly Lys Asp Tyr
 130 135 140
 Ile Glu Phe Asn Lys Glu Ile Pro Ala Trp Val Pro Phe Asp Pro Ala
 145 150 155 160
 Ala Pro Tyr Ser Cys His Val Gln His Ser Ser Leu Ala Gln Pro Leu
 165 170 175
 Val Val Pro Trp Glu Ala Ser
 180

<210> 63
 <211> 205
 <212> PRT
 <213> Homo sapiens

<400> 63
 Met Leu Gln Gln Asp Ser Asn Asp Asp Thr Glu Asp Val Ser Leu Phe
 1 5 10 15
 Asp Ala Glu Glu Glu Thr Thr Asn Arg Pro Arg Lys Ala Lys Ile Arg
 20 25 30
 His Pro Val Ala Ser Phe Phe His Leu Phe Phe Arg Val Ser Ala Ile
 35 40 45
 Ile Val Tyr Leu Leu Cys Glu Leu Leu Ser Ser Ser Phe Ile Thr Cys
 50 55 60
 Met Val Thr Ile Ile Leu Leu Leu Ser Cys Asp Phe Trp Ala Val Lys
 65 70 75 80
 Asn Val Thr Gly Arg Leu Met Val Gly Leu Arg Trp Trp Asn His Ile
 85 90 95
 Asp Glu Asp Gly Lys Ser His Trp Val Phe Glu Ser Arg Lys Glu Ser
 100 105 110
 Ser Gln Glu Asn Lys Thr Val Ser Glu Ala Glu Ser Arg Ile Phe Trp
 115 120 125
 Leu Gly Leu Ile Ala Cys Pro Val Leu Trp Val Ile Phe Ala Phe Ser
 130 135 140
 Ala Leu Phe Ser Phe Arg Val Lys Trp Leu Ala Val Val Ile Met Gly
 145 150 155 160
 Val Val Leu Gln Gly Ala Asn Leu Tyr Gly Tyr Ile Arg Cys Lys Val
 165 170 175
 Arg Ser Arg Lys His Leu Thr Ser Met Ala Thr Ser Tyr Phe Gly Lys
 180 185 190
 Gln Phe Leu Arg Gln Asn Thr Gly Asp Asp Gln Thr Ser
 195 200 205

<210> 64
 <211> 213

<212> PRT

<213> Homo sapiens

<400> 64

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Met Gly Asn Gly Thr Glu Glu Asp Tyr Asn Phe Val Phe Lys Val Val
 1          5          10          15

Leu Ile Gly Glu Ser Gly Val Gly Lys Thr Asn Leu Leu Ser Arg Phe
          20          25          30

Thr Arg Asn Glu Phe Ser His Asp Ser Arg Thr Thr Ile Gly Val Glu
          35          40          45

Phe Ser Thr Arg Thr Val Met Leu Gly Thr Ala Ala Val Lys Ala Gln
          50          55          60

Ile Trp Asp Thr Ala Gly Leu Glu Arg Tyr Arg Ala Ile Thr Ser Ala
 65          70          75          80

Tyr Tyr Arg Gly Ala Val Gly Ala Leu Leu Val Phe Asp Leu Thr Lys
          85          90          95

His Gln Thr Tyr Ala Val Val Glu Arg Trp Leu Lys Glu Leu Tyr Asp
          100          105          110

His Ala Glu Ala Thr Ile Val Val Met Leu Val Gly Asn Lys Ser Asp
          115          120          125

Leu Ser Gln Ala Arg Glu Val Pro Thr Glu Glu Ala Arg Met Phe Ala
          130          135          140

Glu Asn Asn Gly Leu Leu Phe Leu Glu Thr Ser Ala Leu Asp Ser Thr
          145          150          155          160

Asn Val Glu Leu Ala Phe Glu Thr Val Leu Lys Glu Ile Phe Ala Lys
          165          170          175

Val Ser Lys Gln Arg Gln Asn Ser Ile Arg Thr Asn Ala Ile Thr Leu
          180          185          190

Gly Ser Ala Gln Ala Gly Gln Glu Pro Gly Pro Gly Glu Lys Arg Ala
          195          200          205

Cys Cys Ile Ser Leu
          210

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<210> 65

<211> 97

<212> PRT

<213> Homo sapiens

<400> 65

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Met Leu Gly Asn Lys Arg Leu Gly Leu Ser Gly Leu Thr Leu Ala Leu
 1          5          10          15

Ser Leu Leu Val Cys Leu Gly Ala Leu Ala Glu Ala Tyr Pro Ser Lys
          20          25          30

Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala Arg Tyr
          35          40          45

Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
          50          55          60

```

Gly Lys Arg Ser Ser Pro Glu Thr Leu Ile Ser Asp Leu Leu Met Arg
65 70 75 80

Glu Ser Thr Glu Asn Val Pro Arg Thr Arg Leu Glu Asp Pro Ala Met
85 90 95

Trp

<210> 66

<211> 266

<212> PRT

<213> Homo sapiens

<400> 66

Met Gln Gly Ser Thr Arg Arg Met Gly Val Met Thr Asp Val His Arg
1 5 10 15

Arg Phe Leu Gln Leu Leu Met Thr His Gly Val Leu Glu Glu Trp Asp
20 25 30

Val Lys Arg Leu Gln Thr His Cys Tyr Lys Val His Asp Arg Asn Ala
35 40 45

Thr Val Asp Lys Leu Glu Asp Phe Ile Asn Asn Ile Asn Ser Val Leu
50 55 60

Glu Ser Leu Tyr Ile Glu Ile Lys Arg Gly Val Thr Glu Asp Asp Gly
65 70 75 80

Arg Pro Ile Tyr Ala Leu Val Asn Leu Ala Thr Thr Ser Ile Ser Lys
85 90 95

Met Ala Thr Asp Phe Ala Glu Asn Glu Leu Asp Leu Phe Arg Lys Ala
100 105 110

Leu Glu Leu Ile Ile Asp Ser Glu Thr Gly Phe Ala Ser Ser Thr Asn
115 120 125

Ile Leu Asn Leu Val Asp Gln Leu Lys Gly Lys Lys Met Arg Lys Lys
130 135 140

Glu Ala Glu Gln Val Leu Gln Lys Phe Val Gln Asn Lys Trp Leu Ile
145 150 155 160

Glu Lys Glu Gly Glu Phe Thr Leu His Gly Arg Ala Ile Leu Glu Met
165 170 175

Glu Gln Tyr Ile Arg Glu Thr Tyr Pro Asp Ala Val Lys Ile Cys Asn
180 185 190

Ile Cys His Ser Leu Leu Ile Gln Gly Gln Ser Cys Glu Thr Cys Gly
195 200 205

Ile Arg Met His Leu Pro Cys Val Ala Lys Tyr Phe Gln Ser Asn Ala
210 215 220

Glu Pro Arg Cys Pro His Cys Asn Asp Tyr Trp Pro His Glu Ile Pro
225 230 235 240

Lys Val Phe Asp Pro Glu Lys Glu Arg Glu Ser Gly Val Leu Lys Ser
245 250 255

Asn Lys Lys Ser Leu Arg Ser Arg Gln His

260

265

<210> 67
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 67

Met Asn Tyr Leu Phe Phe Phe Leu Thr Thr Ser Gly Leu Tyr Cys Leu
 1 5 10 15
 Ser Gly Ser His Gly Ser Asn Val Lys Tyr Ile Val Leu Thr Tyr Phe
 20 25 30
 Asn Cys Ser Trp Ser Leu Thr Ser Pro Gly Phe Arg Asp Val Leu Lys
 35 40 45
 Gly Ser Gln Leu Trp Gln Val Thr Asp Ser Trp Glu Met Glu Arg Thr
 50 55 60
 Lys Glu Tyr Ser Ser Cys Leu Thr Phe Leu Pro Thr Ala Asp Ile Val
 65 70 75 80
 Gln Ala Arg Val Met Glu Glu Leu Asn Leu Leu Ala Ser Gln Ala Ala
 85 90 95
 Pro Ile Pro Thr Ser Gln Cys Thr Ala Pro Pro His Leu Phe Ser Pro
 100 105 110
 Leu Ser Leu Thr Ser Pro Phe Ile Met Ser His Lys Ser Gly Thr Val
 115 120 125
 Gly Ser His Tyr Asn Leu Leu Cys His Arg Asp Ser Ile Phe Leu Ile
 130 135 140
 Ser Asn His Val Ser
 145

<210> 68
 <211> 277
 <212> PRT
 <213> Homo sapiens

<400> 68

Met Ser Lys Lys Lys Ser Arg Gln Gly Lys Leu Val Lys Gln Phe Ala
 1 5 10 15
 Lys Ile Glu Glu Ser Thr Pro Val His Asp Ser Pro Gly Lys Asp Asp
 20 25 30
 Ala Val Pro Asp Leu Met Gly Pro His Ser Asp Gln Gly Glu His Ser
 35 40 45
 Gly Thr Val Gly Val Pro Val Ser Tyr Thr Asp Cys Ala Pro Ser Pro
 50 55 60
 Val Gly Cys Ser Val Val Thr Ser Asp Ser Phe Lys Thr Lys Asp Ser
 65 70 75 80
 Phe Arg Thr Ala Lys Ser Lys Lys Lys Arg Arg Ile Thr Arg Tyr Asp
 85 90 95

Ala Gln Leu Ile Leu Glu Asn Asn Ser Gly Ile Pro Lys Leu Thr Leu
 100 105 110
 Arg Arg Arg His Asp Ser Ser Ser Lys Thr Asn Asp Gln Glu Asn Asp
 115 120 125
 Gly Met Asn Ser Ser Lys Ile Ser Ile Lys Leu Ser Lys Asp His Asp
 130 135 140
 Asn Asp Asn Asn Leu Tyr Val Ala Lys Leu Asn Asn Gly Phe Asn Ser
 145 150 155 160
 Gly Ser Gly Ser Ser Ser Thr Lys Leu Lys Ile Gln Leu Lys Arg Asp
 165 170 175
 Glu Glu Asn Arg Gly Ser Tyr Thr Glu Gly Leu His Glu Asn Gly Val
 180 185 190
 Cys Cys Ser Asp Pro Leu Ser Leu Leu Glu Ser Arg Met Glu Val Asp
 195 200 205
 Asp Tyr Ser Gln Tyr Glu Glu Glu Ser Thr Asp Asp Ser Ser Ser Ser
 210 215 220
 Glu Gly Asp Glu Glu Glu Asp Asp Tyr Asp Asp Asp Phe Glu Asp Asp
 225 230 235 240
 Phe Ile Pro Leu Pro Pro Ala Lys Arg Leu Arg Leu Ile Val Gly Lys
 245 250 255
 Asp Ser Ile Asp Ile Asp Ile Ser Ser Arg Arg Arg Glu Asp Gln Ser
 260 265 270
 Leu Arg Leu Asn Ala
 275

<210> 69
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 69
 Met His Ser Met Glu His Lys Leu Leu Trp Ile Leu Gln Leu Val Thr
 1 5 10 15
 Trp Asn Cys Phe Leu Val His Met Asn Thr Gly Ser Ile Gln Ala Gln
 20 25 30
 Leu Leu Pro Thr Ala Ser Leu Trp Ala Ser Cys Ser Gln Lys Ala Phe
 35 40 45
 His Leu Met Leu Pro Ile Ala Cys Leu Leu Ser Ser Arg Val Trp Pro
 50 55 60
 Ile Cys His Gly Glu Ala Ala Val Ser Lys Pro Ala Gly Asn Trp Asp
 65 70 75 80
 Val Ala Gly Asp Glu Arg Thr Asp Pro Ser Val Leu Pro Ala
 85 90

<210> 70
 <211> 449

<212> PRT

<213> Homo sapiens

<400> 70

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Met Gln Phe Ala Trp Gln Ser Tyr Lys Arg Tyr Ala Met Gly Lys Asn
 1          5          10          15

Glu Leu Arg Pro Leu Thr Lys Asp Gly Tyr Glu Gly Asn Met Phe Gly
          20          25          30

Gly Leu Ser Gly Ala Thr Val Ile Asp Ser Leu Asp Thr Leu Tyr Leu
          35          40          45

Met Glu Leu Lys Glu Glu Phe Gln Glu Ala Lys Ala Trp Val Gly Glu
 50          55          60

Ser Phe His Leu Asn Val Ser Gly Glu Ala Ser Leu Phe Glu Val Asn
 65          70          75          80

Ile Arg Tyr Ile Gly Gly Leu Leu Ser Ala Phe Tyr Leu Thr Gly Glu
          85          90          95

Glu Val Phe Arg Ile Lys Ala Ile Arg Leu Gly Glu Lys Leu Leu Pro
          100          105          110

Ala Phe Asn Thr Pro Thr Gly Ile Pro Lys Gly Val Val Ser Phe Lys
          115          120          125

Ser Gly Asn Trp Gly Trp Ala Thr Ala Gly Ser Ser Ser Ile Leu Ala
          130          135          140

Glu Phe Gly Ser Leu His Leu Glu Phe Leu His Leu Thr Glu Leu Ser
          145          150          155          160

Gly Asn Gln Val Phe Ala Glu Lys Val Arg Asn Ile Arg Lys Val Leu
          165          170          175

Arg Lys Ile Glu Lys Pro Phe Gly Leu Tyr Pro Asn Phe Leu Ser Pro
          180          185          190

Val Ser Gly Asn Trp Val Gln His His Val Ser Val Gly Gly Leu Gly
          195          200          205

Asp Ser Phe Tyr Glu Tyr Leu Ile Lys Ser Trp Leu Met Ser Gly Lys
          210          215          220

Thr Asp Met Glu Ala Lys Asn Met Tyr Tyr Glu Ala Leu Glu Ala Ile
          225          230          235          240

Glu Thr Tyr Leu Leu Asn Val Ser Pro Gly Gly Leu Thr Tyr Ile Ala
          245          250          255

Glu Trp Arg Gly Gly Ile Leu Asp His Lys Met Gly His Leu Ala Cys
          260          265          270

Phe Ser Gly Gly Met Ile Ala Leu Gly Ala Glu Asp Ala Lys Glu Glu
          275          280          285

Lys Arg Ala His Tyr Arg Glu Leu Ala Ala Gln Ile Thr Lys Thr Cys
          290          295          300

His Glu Ser Tyr Ala Arg Ser Asp Thr Lys Leu Gly Pro Glu Ala Phe
          305          310          315          320

Trp Phe Asn Ser Gly Arg Glu Ala Val Ala Thr Gln Leu Ser Glu Ser
          325          330          335

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Tyr Tyr Ile Leu Arg Pro Glu Val Val Glu Ser Tyr Met Tyr Leu Trp
 340 345 350
 Arg Gln Thr His Asn Pro Ile Tyr Arg Glu Trp Gly Trp Glu Val Val
 355 360 365
 Leu Ala Leu Glu Lys Tyr Cys Arg Thr Glu Ala Gly Phe Ser Gly Ile
 370 375 380
 Gln Asp Val Tyr Ser Ser Thr Pro Asn His Asp Asn Lys Gln Gln Ser
 385 390 395 400
 Phe Phe Leu Ala Glu Thr Leu Lys Tyr Leu Tyr Leu Leu Phe Ser Glu
 405 410 415
 Asp Asp Leu Leu Ser Leu Glu Asp Trp Val Phe Asn Thr Glu Ala His
 420 425 430
 Pro Leu Pro Val Asn His Ser Asp Ser Ser Gly Arg Ala Trp Gly Arg
 435 440 445
 His

<210> 71
 <211> 372
 <212> PRT
 <213> Homo sapiens

<400> 71
 Met Thr Phe Gln Phe Asn Phe Thr Ile Glu Asp His Leu Glu Asn Glu
 1 5 10 15
 Leu Thr Pro Ile Arg Asp Gly Ala Leu Thr Leu Asp Ser Ser Lys Glu
 20 25 30
 Leu Ser Val Ser Glu Ser Gln Lys Gly Glu Glu Arg Asp Arg Lys Cys
 35 40 45
 Ser Ala Glu Gln Phe Asp Leu Pro Gln Asp His Leu Trp Glu His Lys
 50 55 60
 Ser Met Glu Asn Ala Ala Pro Ser Gln Asp Thr Asp Ser Pro Leu Ser
 65 70 75 80
 Ala Ala Ser Ser Ser Arg Asn Leu Glu Pro His Gly Lys Gln Pro Ser
 85 90 95
 Leu Arg Ala Ala Lys Glu His Ala Met Pro Lys Asp Leu Lys Lys Met
 100 105 110
 Leu Glu Asn Lys Val Ile Glu Thr Leu Pro Gly Phe Gln His Val Lys
 115 120 125
 Leu Ser Val Val Lys Thr Ile Leu Leu Lys Glu Asn Phe Pro Gly Glu
 130 135 140
 Asn Ile Val Ser Lys Ser Phe Ser Ser His Ser Asp Leu Ile Thr Gly
 145 150 155 160
 Val Tyr Glu Gly Gly Leu Lys Ile Trp Glu Cys Thr Phe Asp Leu Leu
 165 170 175

Ala Tyr Phe Thr Lys Ala Lys Val Lys Phe Ala Gly Lys Lys Val Leu
 180 185 190
 Asp Leu Gly Cys Gly Ser Gly Leu Leu Gly Ile Thr Ala Phe Lys Gly
 195 200 205
 Gly Ser Lys Glu Ile His Phe Gln Asp Tyr Asn Ser Met Val Ile Asp
 210 215 220
 Glu Val Thr Leu Pro Asn Val Val Ala Asn Ser Thr Leu Glu Asp Glu
 225 230 235 240
 Glu Asn Asp Val Asn Glu Pro Asp Val Lys Arg Cys Arg Lys Pro Lys
 245 250 255
 Val Thr Gln Leu Tyr Lys Cys Arg Phe Phe Ser Gly Glu Trp Ser Glu
 260 265 270
 Phe Cys Lys Leu Val Leu Ser Ser Glu Lys Leu Phe Val Lys Tyr Asp
 275 280 285
 Leu Ile Leu Thr Ser Glu Thr Ile Tyr Asn Pro Asp Tyr Tyr Ser Asn
 290 295 300
 Leu His Gln Thr Phe Leu Arg Leu Leu Ser Lys Asn Gly Arg Val Leu
 305 310 315 320
 Leu Ala Ser Lys Ala His Tyr Phe Gly Val Gly Gly Gly Val His Leu
 325 330 335
 Phe Gln Lys Phe Val Glu Glu Arg Asp Val Phe Lys Thr Arg Ile Leu
 340 345 350
 Lys Ile Ile Asp Glu Gly Leu Lys Arg Phe Ile Ile Glu Ile Thr Phe
 355 360 365
 Lys Phe Pro Gly
 370

<210> 72
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 72
 Met Thr Thr Leu Thr Arg Gln Asp Leu Asn Phe Gly Gln Val Val Ala
 1 5 10 15
 Asp Val Leu Cys Glu Phe Leu Glu Val Ala Val His Leu Ile Leu Tyr
 20 25 30
 Val Arg Glu Val Tyr Pro Val Gly Ile Phe Gln Lys Arg Lys Lys Tyr
 35 40 45
 Asn Val Pro Val Gln Met Ser Cys His Pro Glu Leu Asn Gln Tyr Ile
 50 55 60
 Gln Asp Thr Leu His Cys Val Lys Pro Leu Leu Glu Lys Asn Asp Val
 65 70 75 80
 Glu Lys Val Val Val Ile Leu Asp Lys Glu His Arg Pro Val Glu
 85 90 95
 Lys Phe Val Phe Glu Ile Thr Gln Pro Pro Leu Leu Ser Ile Ser Ser

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<210> 73
<211> 219
<212> PRT
<213> Homo sapiens

<400> 73
Ala Val Val Gly Tyr Thr Asn Cys Gly Lys Thr Thr Leu Ile Lys Ala
  1          5          10          15
Leu Thr Gly Asp Ala Ala Ile Gln Pro Arg Asp Gln Leu Phe Ala Thr
          20          25          30
Leu Asp Val Thr Ala His Ala Gly Thr Leu Pro Ser Arg Met Thr Val
  35          40          45
Leu Tyr Val Asp Thr Ile Gly Phe Leu Ser Gln Leu Pro His Gly Leu
  50          55          60
Ile Glu Ser Phe Ser Ala Thr Leu Glu Asp Val Ala His Ser Asp Leu
  65          70          75          80
Ile Leu His Val Arg Asp Val Ser His Pro Glu Ala Glu Leu Gln Lys
          85          90          95
Cys Ser Val Leu Ser Thr Leu Arg Gly Leu Gln Leu Pro Ala Pro Leu
          100          105          110
Leu Asp Ser Met Val Glu Val His Asn Lys Val Asp Leu Val Pro Gly
          115          120          125
Tyr Ser Pro Thr Glu Pro Asn Val Val Pro Val Ser Ala Leu Arg Gly
          130          135          140
His Gly Leu Gln Glu Leu Lys Ala Glu Leu Asp Ala Ala Val Leu Lys
  145          150          155          160
Ala Thr Gly Arg Gln Ile Leu Thr Leu Arg Val Arg Leu Ala Gly Ala
          165          170          175
Gln Leu Ser Trp Leu Tyr Lys Glu Ala Thr Val Gln Glu Val Asp Val
          180          185          190

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Ile Pro Glu Asp Gly Ala Ala Asp Val Arg Val Ile Ile Ser Asn Ser
 195 200 205

Ala Tyr Gly Lys Phe Arg Lys Leu Phe Pro Gly
 210 215

<210> 74
 <211> 221
 <212> PRT
 <213> Homo sapiens

<400> 74
 Met Leu Ser Leu Pro Leu Arg Ala Pro Ala Pro Arg Leu Glu Arg Arg
 1 5 10 15

Pro Ala Gly Pro Pro Ala Asp Val Phe Leu Val Pro Lys Arg Val Val
 20 25 30

Arg Ala Ser Arg Pro Leu Arg Asp Leu Arg Ala Ser His Arg Ala Pro
 35 40 45

Arg Thr Gln Arg Ala Trp Ser Ser Pro Leu Thr Pro Ser Pro Ala Gly
 50 55 60

Thr His Ala Gly Ser Thr His Thr Ser Ala Pro Pro Pro Asn Phe Trp
 65 70 75 80

Glu Arg Thr Pro Gly Ser Ala Gln Pro Leu Ala Phe Gln Lys Pro Leu
 85 90 95

Tyr Ala Tyr Leu Ile Phe Val Ile Gly Asp Glu Pro Ser Leu Leu Ser
 100 105 110

Pro Phe Pro His Thr His Gln Ser Pro Leu Ala Ile Pro Ser Pro Ser
 115 120 125

Ala Ser Pro Pro Pro Ser Cys Ala Pro Ala Pro His Ser His Pro Pro
 130 135 140

Pro Ile Gly Leu Ala Leu Ala Cys Lys Ser Arg Arg Trp Pro Arg Ala
 145 150 155 160

Gln Pro Ser Arg Met Ser Pro Gly Pro Pro Leu Trp Glu Arg Arg Gln
 165 170 175

Ser Tyr Trp Pro Leu Thr Arg Pro Leu Gly Pro Arg Ala Arg Gln Ala
 180 185 190

Phe Glu Ser Thr Cys Ser Ser Pro Glu Ser Arg Pro Arg Pro Cys Leu
 195 200 205

Pro His Arg Ser Arg Pro Gln Ser Thr Leu Pro Gln Leu
 210 215 220

<210> 75
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 75
 Met Leu Cys Trp Phe Cys Phe Phe Val Leu Leu Phe Phe Phe Phe

1 5 10 15
 Leu Phe Cys Phe Leu Val Met Trp Leu Lys Cys Asn Ser Phe Phe Phe
 20 25 30
 Gly Thr Tyr Phe Cys Gln Leu Lys Thr Arg Arg Ala Gln Leu Phe Phe
 35 40 45

<210> 76
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 76
 Met Lys Thr Gly Gly Lys His Ser Val Ile Arg Tyr Phe Ser Asn Ile
 1 5 10 15
 Lys Thr Thr Lys Thr Asn Asp Lys Asn Val Tyr Phe Tyr Thr Pro Ala
 20 25 30
 Tyr Arg Val Ser Phe Arg Asp Val Tyr Glu Tyr Leu Asn Leu Leu Ile
 35 40 45
 Ser Val Leu Met Lys Ala Glu Leu Asn Arg Lys Ala Ser Ser Trp
 50 55 60

<210> 77
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 77
 Met Phe Ser Val Leu Cys Leu Cys Val Cys Ala Arg Gln Arg Asp Arg
 1 5 10 15
 Leu Phe Val Lys Ser Ala Ser Cys Leu Gly Ile Phe Val Ser His Leu
 20 25 30
 Ala Val Ser Ser
 35

<210> 78
 <211> 395
 <212> PRT
 <213> Homo sapiens

<400> 78
 Met Val Ser Ser Ser Asn Leu Pro Gln Gly Trp Leu Glu Val Gln Gly
 1 5 10 15
 Ile Pro Glu Gly Trp Asp Gly Val Ala Gly Trp Tyr Leu Pro Gly Ile
 20 25 30
 Asn Pro Gly Arg Thr Ala Arg Arg Phe Ala Tyr Leu Phe Val Asn Ile
 35 40 45
 Asn Val Thr Ser Glu Pro His Glu Val Leu Ala Leu Trp Phe Leu Trp

50 55 60
 Tyr Val Lys Gln Cys Gly Gly Thr Thr Arg Ile Phe Ser Val Thr Asn
 65 70 75 80
 Gly Gly Gln Glu Arg Lys Phe Val Gly Gly Ser Gly Gln Val Ser Glu
 85 90 95
 Arg Ile Met Asp Leu Leu Gly Asp Gln Val Lys Leu Asn His Pro Val
 100 105 110
 Thr His Val Asp Gln Ser Ser Asp Asn Ile Ile Ile Glu Thr Leu Asn
 115 120 125
 His Glu His Tyr Glu Cys Lys Tyr Val Ile Asn Ala Ile Pro Pro Thr
 130 135 140
 Leu Thr Ala Lys Ile His Phe Arg Pro Glu Leu Pro Ala Glu Arg Asn
 145 150 155 160
 Gln Leu Ile Gln Arg Leu Pro Met Gly Ala Val Ile Lys Cys Met Met
 165 170 175
 Tyr Tyr Lys Glu Ala Phe Trp Lys Lys Lys Asp Tyr Cys Gly Cys Met
 180 185 190
 Ile Ile Glu Asp Glu Asp Ala Pro Ile Ser Ile Thr Leu Asp Asp Thr
 195 200 205
 Lys Pro Asp Gly Ser Leu Pro Ala Ile Met Gly Phe Ile Leu Ala Arg
 210 215 220
 Lys Ala Asp Arg Leu Ala Lys Leu His Lys Glu Ile Arg Lys Lys Lys
 225 230 235 240
 Ile Cys Glu Leu Tyr Ala Lys Val Leu Gly Ser Gln Glu Ala Leu His
 245 250 255
 Pro Val His Tyr Glu Glu Lys Asn Trp Cys Glu Glu Gln Tyr Ser Gly
 260 265 270
 Gly Cys Tyr Thr Ala Tyr Phe Pro Pro Gly Ile Met Thr Gln Tyr Gly
 275 280 285
 Arg Val Ile Arg Gln Pro Val Gly Arg Ile Phe Phe Ala Gly Thr Glu
 290 295 300
 Thr Ala Thr Lys Trp Ser Gly Tyr Met Glu Gly Ala Val Glu Ala Gly
 305 310 315 320
 Glu Arg Ala Ala Arg Glu Val Leu Asn Gly Leu Gly Lys Val Thr Glu
 325 330 335
 Lys Asp Ile Trp Val Gln Glu Pro Glu Ser Lys Asp Val Pro Ala Val
 340 345 350
 Glu Ile Thr His Thr Phe Trp Glu Arg Asn Leu Pro Ser Val Ser Gly
 355 360 365
 Leu Leu Lys Ile Ile Gly Phe Ser Thr Ser Val Thr Ala Leu Gly Phe
 370 375 380
 Val Leu Tyr Lys Tyr Lys Leu Leu Pro Arg Ser
 385 390 395

<210> 79
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 79
 Met Gly Asn Cys Ser Leu Leu Leu Pro Thr Leu Ser Glu His Leu Trp
 1 5 10 15
 Asp Leu Val Ala Gln Asn Ser Ser Val Thr Ser Ser Ser Pro Pro Phe
 20 25 30
 Val Pro Ile Ser Ser Leu Ser Lys Lys Pro Cys Gly Thr
 35 40 45

<210> 80
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 80
 Met Trp Gly Ser Cys Val Leu Glu Tyr Tyr Val Ser Pro Pro Ser Ala
 1 5 10 15
 Val Phe Ser Glu His Val Cys Cys Pro Trp Trp Glu Arg Gly His Cys
 20 25 30
 Ala Val Val His Arg Cys Leu Ser Phe Thr Val Gly Leu Ser Val Cys
 35 40 45
 Leu Ser Phe Leu Ser Ala Ala Gln Met Glu Asn Asn Tyr Leu Leu His
 50 55 60
 Trp Arg Glu Arg Lys Ser Leu Arg Ile Pro Lys Gly Thr Leu Ala
 65 70 75

<210> 81
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 81
 Met Cys Pro Phe Ser Ser Leu His Leu Ala Ala Gly Ile Val Asp Ile
 1 5 10 15
 Thr Gly Ala Leu Ala Ala Val Ser Arg Gly Ser Lys Pro His Pro Lys
 20 25 30
 Ser Lys Ala Asp
 35

<210> 82
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 82
 Met Ala Leu Gly Thr Trp Lys Arg Val Thr Glu Met Gly Arg His Glu
 1 5 10 15

Leu Lys Glu Ala Ile Tyr Asp His Val Ile Cys Asn Met Lys Lys Ala
 20 25 30

Tyr Leu Glu
 35

<210> 83
 <211> 144
 <212> PRT
 <213> Homo sapiens

<400> 83
 Met Glu Ala Trp Ile Arg Ala Asn Gln Pro Ala Phe Leu Val Trp Arg
 1 5 10 15

Ser Thr Trp Pro Phe Pro Trp Ala Gln Gly His Leu Lys His Cys Pro
 20 25 30

Val Lys Leu Val Leu Gly Cys Pro Cys Ala Trp Arg Val Leu Lys Leu
 35 40 45

Thr Phe Gln Ile Pro Arg Glu Gln Gly Glu Ile Ser Arg Met Ser Ile
 50 55 60

Ala Ala Lys Lys Cys Leu Gly Gly Leu Pro Leu Leu Thr Pro His Leu
 65 70 75 80

Ala Ala Asp Gln His Ser Ile Leu Asn Thr Leu Arg Ala Pro Ser Met
 85 90 95

Ala Phe Asp Arg Thr Lys Ser Pro Gly Val Val Thr Glu Asn Arg Ser
 100 105 110

Cys Ala Val Thr Ala Met Phe Pro Pro Gly Arg Gln Lys Leu Lys Ser
 115 120 125

Pro Lys Arg Thr Ser Phe Ser Ser Ala Ala Asp Glu Trp His Arg Tyr
 130 135 140

<210> 84
 <211> 369
 <212> PRT
 <213> Homo sapiens

<400> 84
 Met Pro Arg Ala Pro Lys Arg Gln Arg Cys Met Pro Glu Glu Asp Leu
 1 5 10 15

Gln Ser Gln Ser Glu Thr Gln Gly Leu Glu Gly Ala Gln Ala Pro Leu
 20 25 30

Ala Val Glu Glu Asp Ala Ser Ser Ser Thr Ser Thr Ser Ser Ser Phe
 35 40 45

Pro Ser Ser Phe Pro Ser Ser Ser Ser Ser Ser Ser Ser Cys Tyr
 50 55 60

Pro Leu Ile Pro Ser Thr Pro Glu Glu Val Ser Ala Asp Asp Glu Thr

65	70					75					80				
Pro Asn Pro Pro Gln Ser Ala Gln Ile Ala Cys Ser Ser Pro Ser Val	85					90					95				
Val Ala Ser Leu Pro Leu Asp Gln Ser Asp Glu Gly Ser Ser Ser Gln	100					105					110				
Lys Glu Glu Ser Pro Ser Thr Leu Gln Val Leu Pro Asp Ser Glu Ser	115					120					125				
Leu Pro Arg Ser Glu Ile Asp Glu Lys Val Thr Asp Leu Val Gln Phe	130					135					140				
Leu Leu Phe Lys Tyr Gln Met Lys Glu Pro Ile Thr Lys Ala Glu Ile	145					150					155				
Leu Glu Ser Val Ile Lys Asn Tyr Glu Asp His Phe Pro Leu Leu Phe	165					170					175				
Ser Glu Ala Ser Glu Cys Met Leu Leu Val Phe Gly Ile Asp Val Lys	180					185					190				
Glu Val Asp Pro Thr Gly His Ser Phe Val Leu Val Thr Ser Leu Gly	195					200					205				
Leu Thr Tyr Asp Gly Met Leu Ser Asp Val Gln Ser Met Pro Lys Thr	210					215					220				
Gly Ile Leu Ile Leu Ile Leu Ser Ile Ile Phe Ile Glu Gly Tyr Cys	225					230					235				
Thr Pro Glu Glu Val Ile Trp Glu Ala Leu Asn Met Met Gly Leu Tyr	245					250					255				
Asp Gly Met Glu His Leu Ile Tyr Gly Glu Pro Arg Lys Leu Leu Thr	260					265					270				
Gln Asp Trp Val Gln Glu Asn Tyr Leu Glu Tyr Arg Gln Val Pro Gly	275					280					285				
Ser Asp Pro Ala Arg Tyr Glu Phe Leu Trp Gly Pro Arg Ala His Ala	290					295					300				
Glu Ile Arg Lys Met Ser Leu Leu Lys Phe Leu Ala Lys Val Asn Gly	305					310					315				
Ser Asp Pro Arg Ser Phe Pro Leu Trp Tyr Glu Glu Ala Leu Lys Asp	325					330					335				
Glu Glu Glu Arg Ala Gln Asp Arg Ile Ala Thr Thr Asp Asp Thr Thr	340					345					350				
Ala Met Ala Ser Ala Ser Ser Ser Ala Thr Gly Ser Phe Ser Tyr Pro	355					360					365				
Glu															

<210> 85

<211> 69

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 85
 Leu Val Ile Tyr Ser Trp His Xaa Phe Phe Ser Phe Gly Phe Ala Trp
 1 5 10 15
 Leu Phe Leu Gln Val Leu Ser Arg Tyr His Ser Ala Asn His Cys Tyr
 20 25 30
 Arg Met Val Thr Ser Phe Val Leu Thr Val Gln Gln Gln Ile Trp Val
 35 40 45
 Arg Leu Asn Leu Ser Val Asn Phe Phe Phe Trp Cys Phe Phe Gly Leu
 50 55 60
 Met Thr Val Ser Leu
 65

<210> 86
 <211> 95
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 86
 Pro Val Leu Leu Ser Leu Leu Leu Leu Leu Gly Pro Ala Val Pro Gln
 1 5 10 15
 Glu Asn Gln Asp Gly Arg Tyr Ser Leu Thr Tyr Ile Tyr Thr Gly Leu
 20 25 30
 Ser Lys His Val Glu Asp Val Pro Ala Phe Gln Ala Leu Xaa His Ser
 35 40 45
 Met Thr Ser Ser Ser Leu Asp Thr Thr Val Lys Thr Gly Ser Leu Ser
 50 55 60
 Pro Trp Asp Ser Gly Asp Arg Trp Lys Glu Trp Arg Ile Gly Ser Arg
 65 70 75 80
 Thr Ala Asn Phe Arg Arg Pro Gly Arg Thr Ser Leu Trp Arg Pro
 85 90 95

<210> 87
 <211> 181
 <212> PRT
 <213> Homo sapiens

<400> 87
 Met Leu Gln Gln Asp Ser Asn Asp Asp Thr Glu Asp Val Ser Leu Phe
 1 5 10 15
 Asp Ala Glu Glu Glu Thr Thr Asn Arg Pro Arg Lys Ala Lys Ile Arg
 20 25 30

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His Pro Val Ala Ser Phe Phe His Leu Phe Phe Arg Val Ser Ala Ile
    35              40              45
Ile Val Tyr Leu Leu Cys Glu Leu Leu Ser Ser Ser Phe Ile Thr Cys
    50              55              60
Met Val Thr Ile Ile Leu Leu Leu Ser Cys Asp Phe Trp Ala Val Lys
    65              70              75              80
Asn Val Thr Gly Arg Leu Met Val Gly Leu Arg Trp Trp Asn His Ile
              85              90              95
Asp Glu Asp Gly Lys Ser His Trp Val Phe Glu Ser Arg Lys Glu Ser
    100              105              110
Ser Gln Glu Asn Lys Thr Val Ser Glu Ala Glu Ser Arg Ile Phe Trp
    115              120              125
Leu Gly Leu Ile Ala Cys Pro Val Leu Trp Val Ile Phe Ala Phe Ser
    130              135              140
Ala Leu Phe Ser Phe Arg Val Lys Trp Leu Ala Val Val Ile Met Gly
    145              150              155              160
Val Val Leu Gln Gly Ala Asn Leu Tyr Gly Thr Ser Gly Val Arg Cys
              165              170              175
Ala Ala Glu Ser Ile
    180

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<210> 88

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 88

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Leu Cys Leu Gln Gly Tyr Tyr Arg Gly Ala Val Gly Ala Leu Leu Val
  1              5              10              15

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Phe Asp Leu Thr Lys His Gln Thr Tyr Ala Val Val Glu Arg Trp Leu
    20              25              30

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Lys Glu Leu Tyr Asp His Xaa Glu Ala Thr Ile Val Val Met Leu Val
    35              40              45

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Gly Asn Lys Met Thr Xaa Ala Arg Pro Gly Lys Cys Pro
    50              55              60

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<210> 89

<211> 217

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 89

Met	Arg	Xaa	Lys	Met	Gly	Asn	Gly	Thr	Glu	Glu	Asp	Tyr	Asn	Phe	Val
1				5					10					15	

Phe	Lys	Val	Val	Leu	Ile	Gly	Glu	Ser	Gly	Val	Gly	Lys	Thr	Asn	Leu
		20						25					30		

Leu	Ser	Arg	Phe	Thr	Arg	Asn	Glu	Phe	Ser	His	Asp	Ser	Arg	Thr	Thr
		35					40					45			

Ile	Gly	Val	Glu	Phe	Ser	Thr	Arg	Thr	Val	Met	Leu	Gly	Thr	Ala	Ala
	50					55					60				

Val	Lys	Ala	Gln	Ile	Trp	Asp	Thr	Ala	Gly	Leu	Glu	Arg	Tyr	Arg	Ala
65					70					75					80

Ile	Thr	Ser	Ala	Tyr	Tyr	Arg	Gly	Ala	Val	Gly	Ala	Leu	Leu	Val	Phe
				85					90					95	

Asp	Leu	Thr	Lys	His	Gln	Thr	Tyr	Ala	Val	Val	Glu	Arg	Trp	Leu	Lys
			100					105					110		

Glu	Leu	Tyr	Asp	His	Ala	Glu	Ala	Thr	Ile	Val	Val	Met	Leu	Val	Gly
		115					120					125			

Asn	Lys	Ser	Asp	Leu	Ser	Gln	Ala	Arg	Glu	Val	Pro	Thr	Glu	Glu	Ala
	130					135					140				

Arg	Met	Phe	Ala	Glu	Asn	Asn	Gly	Leu	Leu	Phe	Leu	Glu	Thr	Ser	Ala
145					150					155					160

Leu	Asp	Ser	Thr	Asn	Val	Glu	Leu	Ala	Phe	Glu	Thr	Val	Leu	Lys	Glu
				165					170					175	

Ile	Phe	Ala	Lys	Val	Ser	Lys	Gln	Arg	Gln	Asn	Ser	Ile	Arg	Thr	Asn
		180					185						190		

Ala	Ile	Thr	Ser	Gly	Ser	Ala	Gln	Ala	Gly	Gln	Glu	Pro	Gly	Pro	Gly
		195					200					205			

Glu	Lys	Arg	Ala	Cys	Cys	Ile	Ser	Leu
210						215		

<210> 90

<211> 72

<212> PRT

<213> Homo sapiens

<400> 90

Met	Leu	Gly	Asn	Lys	Arg	Leu	Gly	Leu	Ser	Gly	Leu	Thr	Ser	Pro	Cys
1				5					10					15	

Pro	Cys	Ser	Cys	Ala	Trp	Val	Arg	Trp	Pro	Arg	Arg	Thr	Pro	Pro	Ser
			20					25					30		

Arg	Thr	Thr	Arg	Ala	Arg	Thr	His	Gln	Arg	Arg	Thr	Trp	Pro	Asp	Thr
		35					40					45			

Thr Gln Arg Cys Asp Thr Thr Ser Thr Ser Ser Pro Gly Arg Asp Met
 50 55 60

Glu Asn Asp Leu Ala Gln Arg His
 65 70

<210> 91

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 91

Met Leu Gly Asn Lys Arg Leu Gly Leu Ser Gly Leu Thr Leu Ala Leu
 1 5 10 15

Ser Leu Leu Val Cys Leu Gly Ala Leu Ala Glu Ala Tyr Pro Ser Xaa
 20 25 30

Pro Asp Asn Pro Gly Glu Asp Ala Pro Xaa Glu Gly His Gly Gln Ile
 35 40 45

Leu Leu Xaa Ala Ala Thr Leu His Gln Pro His His Gln Ala Glu Ile
 50 55 60

Trp Lys Thr Ile Xaa Pro Arg Asp Thr Asp Phe Arg Pro Leu Asp Glu
 65 70 75 80

Arg Lys His Arg Lys Cys Ser Gln Asn Ser Ala
 85 90

<210> 92

<211> 277

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 92

Met Gln Gly Ser Thr Arg Arg Met Gly Val Met Thr Asp Val His Arg

1	5	10	15
Arg Phe Leu Gln Leu Leu Met Thr His Gly Val Leu Glu Glu Trp Asp	20	25	30
Val Lys Arg Leu Gln Thr His Cys Tyr Lys Val His Asp Arg Asn Ala	35	40	45
Thr Val Asp Lys Leu Glu Asp Phe Ile Asn Asn Ile Asn Ser Val Leu	50	55	60
Glu Ser Leu Tyr Ile Glu Ile Lys Arg Gly Val Thr Glu Asp Asp Gly	65	70	75
Arg Pro Ile Tyr Ala Leu Val Asn Leu Ala Thr Thr Ser Ile Ser Lys	85	90	95
Met Ala Thr Asp Phe Ala Glu Asn Glu Leu Asp Leu Phe Arg Lys Ala	100	105	110
Leu Glu Leu Ile Ile Asp Ser Glu Thr Gly Phe Ala Ser Ser Thr Asn	115	120	125
Ile Leu Asn Leu Val Asp Gln Leu Lys Gly Lys Lys Met Arg Lys Lys	130	135	140
Glu Ala Xaa Gln Val Leu Gln Lys Phe Val Gln Asn Lys Trp Leu Ile	145	150	155
Glu Lys Glu Gly Glu Phe Thr Leu His Gly Arg Ala Ile Leu Glu Met	165	170	175
Glu Gln Tyr Ile Arg Glu Thr Tyr Pro Asp Ala Val Lys Ile Cys Asn	180	185	190
Ile Cys His Ser Leu Leu Ile Gln Gly Gln Ser Cys Glu Thr Cys Gly	195	200	205
Ile Arg Met His Leu Pro Cys Val Ala Lys Tyr Phe Gln Ser Asn Ala	210	215	220
Glu Pro Arg Cys Pro His Cys Asn Asp Tyr Trp Pro His Glu Ile Pro	225	230	235
Lys Val Phe Asp Pro Glu Lys Glu Arg Glu Ser Gly Val Leu Lys Ser	245	250	255
Asn Lys Lys Ser Cys Gly Pro Gly Ser Ile Ser His Arg Ala Leu Leu	260	265	270
Arg Gly Trp Leu Pro	275		

<210> 93

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 93

Phe Leu His Thr Phe Asn Cys Ser Trp Ser Leu Thr Ser Pro Gly Xaa
 1 5 10 15
 Arg Asp Val Leu Lys Gly Ser Gln Leu Trp Gln Val Thr Asp Ser Trp
 20 25 30
 Glu Met Glu Arg Thr Lys Glu Tyr Ser Ser Cys Leu Thr Phe Leu Pro
 35 40 45
 Thr Ala Asp Ile Val Gln Ala Arg Val Met Glu Glu Leu Asn Leu Leu
 50 55 60
 Ala Ser Gln Ala Ala Pro Ile Pro Thr Ser Gln Cys Thr Ala Pro Pro
 65 70 75 80
 His Leu Phe Ser Pro Leu Ser Leu Thr Ser Pro Phe Ile Met Ser His
 85 90 95
 Lys Ser Gly Thr Val Gly Ser His Tyr Asn Leu Leu Cys His Arg Asp
 100 105 110
 Ser Ile Phe Leu Ile Ser Asn His Val Ser
 115 120

<210> 94
 <211> 341
 <212> PRT
 <213> Homo sapiens

<400> 94
 Arg Thr Asn Leu Lys Glu Ala Ser Asp Ile Lys Leu Glu Pro Asn Thr
 1 5 10 15
 Leu Asn Gly Tyr Lys Ser Ser Val Thr Glu Pro Cys Pro Asp Ser Gly
 20 25 30
 Glu Gln Leu Gln Pro Ala Pro Val Leu Gln Glu Glu Glu Leu Ala His
 35 40 45
 Glu Thr Ala Gln Lys Gly Glu Ala Lys Cys His Lys Ser Asp Thr Gly
 50 55 60
 Met Ser Lys Lys Lys Ser Arg Gln Gly Lys Leu Val Lys Gln Phe Ala
 65 70 75 80
 Lys Ile Glu Glu Ser Thr Pro Val His Asp Ser Pro Gly Lys Asp Asp
 85 90 95
 Ala Val Pro Asp Leu Met Gly Pro His Ser Asp Gln Gly Glu His Ser
 100 105 110
 Gly Thr Val Gly Val Pro Val Ser Tyr Thr Asp Cys Ala Pro Ser Pro
 115 120 125
 Val Gly Cys Ser Val Val Thr Ser Asp Ser Phe Arg Thr Lys Asp Ser
 130 135 140
 Phe Arg Thr Ala Lys Ser Lys Lys Lys Arg Arg Ile Thr Arg Tyr Asp
 145 150 155 160
 Ala Gln Leu Ile Leu Glu Asn Asn Ser Gly Ile Pro Lys Leu Thr Leu
 165 170 175
 Arg Arg Arg His Asp Ser Ser Ser Lys Thr Asn Asp Gln Glu Asn Asp

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<210> 95
<211> 197
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (179)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (189)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (190)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 95
Met  Gln  Phe  Ala  Trp  Gln  Ser  Tyr  Lys  Arg  Tyr  Ala  Met  Gly  Lys  Asn
  1              5              10              15
Glu  Leu  Arg  Pro  Leu  Thr  Lys  Asp  Gly  Tyr  Glu  Gly  Asn  Met  Phe  Gly
              20              25              30
Gly  Leu  Ser  Gly  Ala  Thr  Val  Ile  Asp  Ser  Leu  Asp  Thr  Leu  Tyr  Leu
          35              40              45
Met  Glu  Leu  Lys  Glu  Glu  Phe  Gln  Glu  Ala  Lys  Ala  Trp  Val  Gly  Glu
      50              55              60

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Ser Phe His Leu Asn Val Ser Gly Glu Ala Ser Leu Phe Glu Val Asn
 65              70              75              80

Ile Arg Tyr Ile Gly Gly Leu Leu Ser Ala Phe Tyr Leu Thr Gly Glu
              85              90              95

Glu Val Phe Arg Ile Lys Ala Ile Arg Leu Gly Glu Lys Leu Leu Pro
              100              105              110

Ala Phe Asn Thr Pro Thr Gly Ile Pro Lys Gly Val Val Ser Phe Lys
              115              120              125

Ser Gly Asn Trp Gly Trp Ala Thr Ala Gly Ser Ser Ser Ile Leu Ala
              130              135              140

Glu Phe Gly Ser Leu His Leu Glu Phe Leu His Leu Thr Glu Leu Ser
145              150              155              160

Gly Asn Gln Val Phe Ala Glu Lys Val Arg Asn Ile Arg Lys Val Leu
              165              170              175

Arg Lys Xaa Glu Lys Pro Phe Gly Leu Tyr Ser Asn Xaa Xaa Met Val
              180              185              190

Leu Gln Thr Asp Pro
              195

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<210> 96
<211> 254
<212> PRT
<213> Homo sapiens

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<220>
<221> SITE
<222> (162)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (170)
<223> Xaa equals any of the naturally occurring L-amino acids

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<400> 96
Phe Gly Thr Ser Tyr Ile Gly Gly Leu Leu Ser Ala Phe Tyr Leu Thr
 1              5              10              15

Gly Glu Glu Val Phe Arg Ile Lys Ala Ile Arg Leu Gly Glu Lys Leu
              20              25              30

Leu Pro Ala Phe Asn Thr Pro Thr Gly Ile Pro Lys Gly Val Val Ser
              35              40              45

Phe Lys Ser Gly Asn Trp Gly Trp Ala Thr Ala Gly Ser Ser Ser Ile
              50              55              60

Leu Ala Glu Phe Gly Ser Leu His Leu Glu Phe Leu His Leu Thr Glu
              65              70              75              80

Leu Ser Gly Asn Gln Val Phe Ala Glu Lys Val Arg Asn Ile Arg Lys
              85              90              95

Val Leu Arg Lys Ile Glu Lys Pro Phe Gly Leu Tyr Pro Asn Phe Leu
              100              105              110

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Ser Pro Val Ser Gly Asn Trp Val Gln His His Val Ser Val Gly Gly
 115 120 125
 Leu Gly Asp Ser Phe Tyr Glu Tyr Leu Ile Lys Ser Trp Leu Met Ser
 130 135 140
 Gly Lys Thr Asp Met Glu Ala Lys Asn Met Tyr Tyr Glu Ala Leu Glu
 145 150 155 160
 Ala Xaa Arg Asp Leu Leu Ala Glu Cys Xaa Ser Arg Gly Ala Asp Leu
 165 170 175
 His Cys Arg Val Ala Arg Gly Asp Ser Gly Pro Gln Asp Gly Ala Pro
 180 185 190
 Gly Leu Phe Leu Arg Gly His Asp Arg Pro Trp Pro Glu Asp Ala Lys
 195 200 205
 Glu Glu Lys Arg Ala His Tyr Arg Glu Leu Ala Ala Gln Ile Thr Lys
 210 215 220
 Thr Cys His Glu Ser Tyr Ala Arg Ser Asp Thr Lys Leu Gly Pro Glu
 225 230 235 240
 Ala Ser Gly Leu Thr Pro Ala Glu Arg Pro Trp Pro Pro Ser
 245 250

<210> 97
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 97
 Met Thr Phe Gln Phe Asn Phe Thr Ile Glu Asp His Leu Glu Asn Glu
 1 5 10 15
 Leu Thr Pro Ile Arg Asp Gly Ala Leu Thr Leu Asp Ser Ser Lys Glu
 20 25 30
 Leu Ser Val Ser Glu Ser Gln Lys Gly Glu Glu Arg Asp Arg Lys Cys
 35 40 45
 Ser Ala Glu Gln Phe Asp Leu Pro Gln Asp His Leu Trp Glu His Lys
 50 55 60
 Ser Met Glu Asn Ala Ala Pro Ser Gln Asp Thr Asp Ser Pro Leu Ser
 65 70 75 80
 Ala Ala Ser Ser Ser Arg Asn Leu Gly Ala Thr Trp Glu Asn Ser Pro
 85 90 95

Pro

<210> 98
 <211> 288
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (277)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 98

Pro	His	Arg	Val	Asp	Thr	Arg	Arg	Arg	Asp	Pro	Val	Pro	Arg	Ser	Arg
1				5					10					15	
Ala	Leu	Ser	His	Gly	Thr	Gly	Arg	Val	Gly	Ala	Ala	Ala	Gly	Glu	Ser
			20					25					30		
Ser	Arg	Ala	Pro	Arg	Cys	Trp	Ser	Gly	Ser	Arg	Pro	Arg	Ala	Pro	Ala
		35					40					45			
Asp	Pro	Pro	Arg	His	Arg	Pro	Leu	Leu	Cys	Leu	Ser	Arg	Arg	Gly	Ser
	50					55					60				
Pro	Pro	His	His	Leu	Gly	Cys	Leu	Leu	Gly	Glu	Ser	Phe	Met	Gln	Leu
	65				70					75					80
Gln	Gln	Arg	Leu	Leu	Arg	Glu	Lys	Glu	Ala	Lys	Ile	Arg	Lys	Ala	Leu
				85					90					95	
Asp	Arg	Leu	Arg	Lys	Lys	Arg	His	Leu	Leu	Arg	Arg	Gln	Arg	Thr	Arg
			100					105					110		
Arg	Glu	Phe	Pro	Val	Ile	Ser	Val	Val	Gly	Tyr	Thr	Asn	Cys	Gly	Lys
		115					120					125			
Thr	Thr	Leu	Ile	Lys	Ala	Leu	Thr	Gly	Asp	Ala	Ala	Ile	Gln	Pro	Arg
	130					135						140			
Asp	Gln	Leu	Phe	Ala	Thr	Leu	Asp	Val	Thr	Ala	His	Ala	Gly	Thr	Leu
	145				150					155					160
Pro	Ser	Arg	Met	Thr	Val	Leu	Tyr	Val	Asp	Thr	Ile	Gly	Phe	Leu	Ser
				165					170					175	
Gln	Leu	Pro	His	Gly	Leu	Ile	Glu	Ser	Phe	Ser	Ala	Thr	Leu	Glu	Asp
			180					185					190		
Val	Ala	His	Ser	Asp	Leu	Ile	Leu	His	Val	Arg	Asp	Val	Ser	His	Pro
		195				200						205			
Glu	Ala	Glu	Leu	Gln	Lys	Cys	Ser	Val	Leu	Ser	Thr	Leu	Arg	Gly	Leu
	210					215					220				
Gln	Leu	Pro	Ala	Pro	Leu	Leu	Asp	Ser	Met	Val	Glu	Val	His	Asn	Lys
	225				230					235					240
Val	Asp	Leu	Val	Pro	Gly	Tyr	Ser	Pro	Thr	Glu	Pro	Asn	Val	Val	Pro
				245					250					255	
Val	Ser	Ala	Leu	Arg	Gly	His	Gly	Leu	Gln	Glu	Leu	Lys	Leu	Ser	Ser
			260					265					270		
Met	Arg	Arg	Phe	Xaa	Arg	Arg	Arg	Gly	Asp	Arg	Ser	Ser	Leu	Ser	Val
		275					280					285			

<210> 99

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 99

Pro Pro Pro Ile Gly Leu Ala Leu Ala Cys Lys Ser Arg Arg Trp Pro
1 5 10 15

Arg Ala Gln Pro Ser Arg Met Ser Pro Gly Pro Pro Leu Trp Glu Arg
20 25 30

Arg Gln Ser Tyr Trp Pro Leu Thr Arg Pro Leu Gly Pro Arg Ala Arg
35 40 45

Gln Ala Phe Glu Ser Thr Cys Ser Ser Pro Glu Ser Xaa Pro Xaa Arg
50 55 60

Ala Ser His Thr Ala Ala Asp Leu Arg Ala Pro Cys Leu Asn Cys Glu
65 70 75 80

Phe Phe Leu Gly Asn Pro Leu Lys Arg Lys Gly Tyr Gln Ser
85 90

<210> 100

<211> 38

<212> PRT

<213> Homo sapiens

<400> 100

Met Leu Cys Trp Phe Cys Phe Phe Val Leu Leu Phe Phe Phe Phe Phe
1 5 10 15

Leu Phe Cys Phe Leu Val Met Trp Leu Lys Cys Asn Ser Phe Phe Leu
20 25 30

Gly His Ile Ser Ala Asn
35

<210> 101

<211> 60

<212> PRT

<213> Homo sapiens

<400> 101

Met Lys Thr Gly Gly Lys His Ser Val Ile Arg Tyr Phe Ser Asn Ile
1 5 10 15

Lys Thr Thr Lys Thr Asn Asp Lys Asn Val Tyr Phe Tyr Thr Pro Ala
20 25 30

Tyr Arg Val Ser Phe Arg Asp Val Tyr Glu Tyr Leu Asn Leu Leu Ile
35 40 45

Ser Val Leu Met Lys Ala Glu Leu Asn Arg Glu Ser

50

55

60

<210> 102
 <211> 40
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 102
 Trp Met Ser Glu Tyr Xaa Gln Trp Val Phe Leu Ile Ser Leu Arg Ile
 1 5 10 15
 Cys Leu Arg Val His Tyr Gln Gly Ile Ser Gly Thr Arg Xaa His Ser
 20 25 30
 Leu His Gln Phe Leu Arg Val Leu
 35 40

<210> 103
 <211> 228
 <212> PRT
 <213> Homo sapiens

<400> 103
 Met Gly Ala Val Ile Lys Cys Met Met Tyr Tyr Lys Glu Ala Phe Trp
 1 5 10 15
 Lys Lys Lys Asp Tyr Cys Gly Cys Met Ile Ile Glu Asp Glu Asp Ala
 20 25 30
 Pro Ile Ser Ile Thr Leu Asp Asp Thr Lys Pro Asp Gly Ser Leu Pro
 35 40 45
 Ala Ile Met Gly Phe Ile Leu Ala Arg Lys Ala Asp Arg Leu Ala Lys
 50 55 60
 Leu His Lys Glu Ile Arg Lys Lys Lys Ile Cys Glu Leu Tyr Ala Lys
 65 70 75 80
 Val Leu Gly Ser Gln Glu Ala Leu His Pro Val His Tyr Glu Glu Lys
 85 90 95
 Asn Trp Cys Glu Glu Gln Tyr Ser Gly Gly Cys Tyr Thr Ala Tyr Phe
 100 105 110
 Pro Pro Gly Ile Met Thr Gln Tyr Gly Arg Val Ile Arg Gln Pro Val
 115 120 125
 Gly Arg Ile Phe Phe Ala Gly Thr Glu Thr Ala Thr Lys Trp Ser Gly
 130 135 140
 Tyr Met Glu Gly Ala Val Glu Ala Gly Glu Arg Ala Ala Arg Glu Val
 145 150 155 160

[illegible]

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<210> 104
<211> 82
<212> PRT
<213> Homo sapiens
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<400> 104
Phe Phe Val Ile Pro Ser Ser Gly Ser Ile Cys Phe Cys Ser Leu Val
  1                               5                             10                            15
Thr Val Leu Met Phe Asn Cys Cys Thr Leu Lys Pro Lys Ser Val Thr
                20                      25                     30
Met His Thr Val Thr Lys Val Leu Gly Leu Gln Ser Cys Leu Leu Tyr
    35                                40                    45
Lys Glu Asn Phe Lys Cys Cys Cys Lys Leu Thr Ser Tyr Thr Ile Leu
   50                              55                   60
Asn Phe Leu Ser Ser Pro Leu Phe Leu Pro Thr Asn Gly Ile Ile Met
  65                          70                        75                       80
Leu Ala
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<210> 105
<211> 79
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 105
Met Trp Gly Ser Cys Xaa Leu Glu Tyr Tyr Val Ser Pro Pro Ser Ala
  1          5          10          15
Val Phe Ser Glu His Val Cys Cys Pro Trp Trp Glu Arg Gly His Cys
          20          25          30
Ala Val Val His Arg Cys Leu Ser Phe Thr Val Gly Leu Ser Val Cys
          35          40          45
Leu Ser Phe Leu Ser Ala Ala Gln Met Glu Asn Asn Tyr Leu Leu His
  50          55          60

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Trp Arg Glu Arg Lys Ser Leu Arg Ile Pro Lys Gly Thr Leu Ala
 65 70 75

<210> 106
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 106
 Met Cys Pro Phe Ser Ser Leu His Leu Ala Ala Gly Ile Val Asp Ile
 1 5 10 15
 Thr Gly Ala Leu Ala Ala Val Ser Arg Gly Ser Lys Pro His Pro Lys
 20 25 30
 Ser Lys Ala Asp
 35

<210> 107
 <211> 35
 <212> PRT
 <213> Homo sapiens
 <400> 107
 Met Ala Leu Gly Thr Trp Lys Arg Val Thr Glu Met Gly Arg His Glu
 1 5 10 15
 Leu Lys Glu Ala Ile Tyr Asp His Val Ile Cys Asn Met Lys Lys Ala
 20 25 30
 Tyr Leu Glu
 35

<210> 108
 <211> 43
 <212> PRT
 <213> Homo sapiens
 <400> 108
 Ile Val Thr Lys Leu Lys Arg Leu Cys Cys Phe Ser Val Met Ser Ala
 1 5 10 15
 Gly Ile Lys Ala Val Ser Ala Pro Cys Gly Ala Ser Cys Gly Ile Cys
 20 25 30
 Ser Ser Pro Tyr Pro His Asn Ser Gly Ala Gln
 35 40

<210> 109
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 109
 Arg Pro Thr Arg Pro Pro Cys His Ile Leu Leu Ala Tyr Leu Phe Phe
 1 5 10 15

Leu Trp Leu Cys Met Ala Phe Leu Gln Val Leu Ser Arg Tyr His Ser
 20 25 30
 Ala Asn His Cys Tyr Arg Met Val Thr Ser Phe Val Leu Thr Val Gln
 35 40 45
 Gln Gln Ile Trp Val Arg Leu Asn Leu Ser Val Asn Phe Phe Phe Trp
 50 55 60
 Cys Phe Phe Gly Leu Met Thr Val Ser Leu
 65 70

<210> 110
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 110
 Trp Cys Phe Phe Gly Leu Met
 1 5

<210> 111
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 111
 Phe Phe Gly Leu Met Thr Val
 1 5

<210> 112
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 112
 Trp Cys Phe Phe Gly Leu Met Thr Val
 1 5

<210> 113
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 113
 Phe Leu Gln Val Leu Ser Arg Tyr His Ser Ala Asn His Cys Tyr Arg
 1 5 10 15

Met Val Thr Ser Phe Val Leu Thr Val Gln Gln Gln Ile Trp Val Arg
 20 25 30

Leu Asn Leu Ser Val Asn Phe Phe Phe Trp Cys Phe Phe Gly Leu Met
 35 40 45

Thr Val Ser Leu Leu Tyr Pro Cys Phe Ala Cys Asn Asp Ser Cys Met
 50 55 60

Val Phe Leu Thr Ser

65

<210> 114
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 114
 Ser Trp Gln Thr Glu Glu Lys Thr Cys Asp Leu Val Gly Glu Lys Gly
 1 5 10 15
 Lys Glu Ser Glu Lys Glu Leu Ala Leu Val Lys Arg Leu Lys Pro Leu
 20 25 30
 Phe Asn Lys Ser Phe Glu Ser Thr Val Gly Gln Gly Ser Asp Thr Tyr
 35 40 45
 Ile Tyr Ile Phe Arg Val Cys Arg Glu Ala Gly Asn His Thr Ser Gly
 50 55 60
 Ala Gly Leu Val Gln Ile Asn Lys Ser Asn Gly Lys Glu Thr Val Val
 65 70 75 80
 Gly Arg Leu Asn Glu Thr His Ile Phe Asn Gly Ser Asn Trp Ile Met
 85 90 95
 Leu Ile Tyr Lys Gly Gly Asp Glu Tyr Asp Asn His Cys Gly Lys Glu
 100 105 110
 Gln Arg Arg Ala Val Val Met Ile Ser Cys Asn Arg His Thr Leu Ala
 115 120 125
 Asp Asn Phe Asn Pro Val Ser Glu Glu Arg Gly Lys Val Gln Asp Cys
 130 135 140
 Phe Tyr Leu Phe Glu Met Asp Ser Ser Leu Ala Cys Ser Pro Glu Ile
 145 150 155 160
 Ser His Leu Ser Val Gly Ser
 165

<210> 115
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 115
 Ser Trp Gln Thr Glu Glu Lys Thr Cys Asp Leu Val Gly Glu Lys Gly
 1 5 10 15
 Lys Glu Ser Glu Lys Glu Leu Ala Leu Val Lys Arg Leu Lys Pro Leu
 20 25 30

<210> 116
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 116

Phe Asn Lys Ser Phe Glu Ser Thr Val Gly Gln Gly Ser Asp Thr Tyr
 1 5 10 15

Ile Tyr Ile Phe Arg Val Cys Arg Glu Ala Gly Asn His Thr Ser Gly
 20 25 30

<210> 117

<211> 32

<212> PRT

<213> Homo sapiens

<400> 117

Ala Gly Leu Val Gln Ile Asn Lys Ser Asn Gly Lys Glu Thr Val Val
 1 5 10 15

Gly Arg Leu Asn Glu Thr His Ile Phe Asn Gly Ser Asn Trp Ile Met
 20 25 30

<210> 118

<211> 32

<212> PRT

<213> Homo sapiens

<400> 118

Leu Ile Tyr Lys Gly Gly Asp Glu Tyr Asp Asn His Cys Gly Lys Glu
 1 5 10 15

Gln Arg Arg Ala Val Val Met Ile Ser Cys Asn Arg His Thr Leu Ala
 20 25 30

<210> 119

<211> 39

<212> PRT

<213> Homo sapiens

<400> 119

Asp Asn Phe Asn Pro Val Ser Glu Glu Arg Gly Lys Val Gln Asp Cys
 1 5 10 15

Phe Tyr Leu Phe Glu Met Asp Ser Ser Leu Ala Cys Ser Pro Glu Ile
 20 25 30

Ser His Leu Ser Val Gly Ser
 35

<210> 120

<211> 7

<212> PRT
 <213> Homo sapiens

<400> 120
 Tyr Ser Cys His Val Gln His
 1 5

<210> 121
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 121
 Pro Tyr Ser Cys His Val Gln His Ser
 1 5

<210> 122
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 122
 Ala Pro Tyr Ser Cys His Val Gln His Ser Ser
 1 5 10

<210> 123
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 123
 Ser Cys Asp Phe Trp Ala Val Lys Asn Val Thr Gly Arg Leu Met Val
 1 5 10 15
 Gly Leu Arg Trp Trp Asn His Ile Asp Glu Asp Gly Lys Ser His Trp
 20 25 30
 Val Phe Glu Ser Arg Lys Glu Ser Ser Gln Glu Asn Lys Thr Val Ser
 35 40 45
 Glu Ala Glu Ser Arg Ile Phe Trp Leu Gly
 50 55

<210> 124
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 124
 Gly Glu Ser Gly Val Gly Lys Thr
 1 5

<210> 125
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 125

Ile Gly Glu Ser Gly Val Gly Lys Thr
1 5

<210> 126

<211> 9

<212> PRT

<213> Homo sapiens

<400> 126

Gly Glu Ser Gly Val Gly Lys Thr Asn
1 5

<210> 127

<211> 15

<212> PRT

<213> Homo sapiens

<400> 127

Val Val Leu Ile Gly Glu Ser Gly Val Gly Lys Thr Asn Leu Leu
1 5 10 15

<210> 128

<211> 46

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 128

Tyr Tyr Arg Gly Ala Val Gly Ala Leu Val Phe Asp Leu Thr Lys
1 5 10 15His Gln Thr Tyr Ala Val Val Glu Arg Trp Leu Lys Glu Leu Tyr Asp
20 25 30His Xaa Glu Ala Thr Ile Val Val Met Leu Val Gly Asn Lys
35 40 45

<210> 129

<211> 17

<212> PRT

<213> Homo sapiens

<400> 129

Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg
1 5 10 15

Tyr

<210> 130

<211> 288
 <212> PRT
 <213> Homo sapiens

<400> 130

Thr	Arg	Pro	Arg	Val	His	Leu	Ala	Thr	Val	Ser	Ala	Ser	Ala	Ala	Trp
1				5					10					15	
Asp	Ala	Leu	Gly	Leu	Pro	Val	Arg	Ser	His	Met	Gln	Gly	Ser	Thr	Arg
		20						25					30		
Arg	Met	Gly	Val	Met	Thr	Asp	Val	His	Arg	Arg	Phe	Leu	Gln	Leu	Leu
		35					40					45			
Met	Thr	His	Gly	Val	Leu	Glu	Glu	Trp	Asp	Val	Lys	Arg	Leu	Gln	Thr
	50					55					60				
His	Cys	Tyr	Lys	Val	Asp	Arg	Asn	Ala	Thr	Val	Asp	Lys	Leu	Glu	Asp
	65				70					75					80
Phe	Ile	Asn	Asn	Ile	Asn	Ser	Val	Leu	Glu	Ser	Leu	Tyr	Ile	Glu	Ile
				85					90					95	
Lys	Arg	Gly	Val	Thr	Glu	Asp	Asp	Gly	Arg	Pro	Ile	Tyr	Ala	Leu	Val
			100					105					110		
Asn	Leu	Ala	Thr	Thr	Ser	Ile	Ser	Lys	Met	Ala	Thr	Asp	Phe	Ala	Glu
		115					120					125			
Asn	Glu	Leu	Asp	Leu	Phe	Arg	Lys	Ala	Leu	Leu	Ile	Ile	Asp	Ser	Glu
	130					135					140				
Thr	Gly	Phe	Ala	Ser	Ser	Thr	Asn	Ile	Leu	Asn	Leu	Val	Asp	Gln	Leu
	145				150					155					160
Lys	Gly	Lys	Lys	Met	Arg	Lys	Lys	Glu	Ala	Glu	Gln	Val	Leu	Gln	Lys
				165					170					175	
Phe	Val	Gln	Asn	Lys	Trp	Leu	Ile	Glu	Lys	Glu	Gly	Glu	Phe	Thr	Leu
			180					185					190		
His	Gly	Arg	Ala	Ile	Leu	Glu	Met	Glu	Gln	Tyr	Ile	Arg	Glu	Thr	Pro
		195					200					205			
Asp	Ala	Val	Lys	Ile	Cys	Asn	Ile	Cys	His	Ser	Leu	Leu	Ile	Gln	Gly
	210					215					220				
Gln	Ser	Cys	Glu	Thr	Cys	Gly	Ile	Arg	Met	His	Leu	Pro	Cys	Val	Ala
	225				230					235					240
Lys	Tyr	Phe	Gln	Ser	Asn	Ala	Glu	Pro	Arg	Cys	Pro	His	Cys	Asn	Asp
				245					250					255	
Tyr	Trp	Pro	His	Glu	Ile	Pro	Lys	Val	Phe	Asp	Pro	Glu	Lys	Glu	Arg
			260					265					270		
Glu	Ser	Gly	Val	Lys	Ser	Asn	Lys	Lys	Ser	Leu	Arg	Ser	Arg	Gln	His
		275					280					285			

<210> 131
 <211> 7

<212> PRT
 <213> Homo sapiens

<400> 131
 Cys Asn Ile Cys His Ser Leu
 1 5

<210> 132
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 132
 Ile Cys Asn Ile Cys His Ser
 1 5

<210> 133
 <211> 8
 <212> PRT
 <213> Homo sapiens

<400> 133
 Ile Cys Asn Ile Cys His Ser Leu
 1 5

<210> 134
 <211> 277
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (147)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 134
 Met Gln Gly Ser Thr Arg Arg Met Gly Val Met Thr Asp Val His Arg
 1 5 10 15
 Arg Phe Leu Gln Leu Leu Met Thr His Gly Val Leu Glu Glu Trp Asp
 20 25 30
 Val Lys Arg Leu Gln Thr His Cys Tyr Lys Val His Asp Arg Asn Ala
 35 40 45
 Thr Val Asp Lys Leu Glu Asp Phe Ile Asn Asn Ile Asn Ser Val Leu
 50 55 60
 Glu Ser Leu Tyr Ile Glu Ile Lys Arg Gly Val Thr Glu Asp Asp Gly
 65 70 75 80
 Arg Pro Ile Tyr Ala Leu Val Asn Leu Ala Thr Thr Ser Ile Ser Lys
 85 90 95
 Met Ala Thr Asp Phe Ala Glu Asn Glu Leu Asp Leu Phe Arg Lys Ala
 100 105 110
 Leu Glu Leu Ile Ile Asp Ser Glu Thr Gly Phe Ala Ser Ser Thr Asn
 115 120 125

Ile Leu Asn Leu Val Asp Gln Leu Lys Gly Lys Lys Met Arg Lys Lys
130 135 140

Glu Ala Xaa Gln Val Leu Gln Lys Phe Val Gln Asn Lys Trp Leu Ile
145 150 155 160

Glu Lys Glu Gly Glu Phe Thr Leu His Gly Arg Ala Ile Leu Glu Met
165 170 175

Glu Gln Tyr Ile Arg Glu Thr Tyr Pro Asp Ala Val Lys Ile Cys Asn
180 185 190

Ile Cys His Ser Leu Leu Ile Gln Gly Gln Ser Cys Glu Thr Cys Gly
195 200 205

Ile Arg Met His Leu Pro Cys Val Ala Lys Tyr Phe Gln Ser Asn Ala
210 215 220

Glu Pro Arg Cys Pro His Cys Asn Asp Tyr Trp Pro His Glu Ile Pro
225 230 235 240

Lys Val Phe Asp Pro Glu Lys Glu Arg Glu Ser Gly Val Leu Lys Ser
245 250 255

Asn Lys Lys Ser Cys Gly Pro Gly Ser Ile Ser His Arg Ala Leu Leu
260 265 270

Arg Gly Trp Leu Pro
275

<210> 135

<211> 153

<212> PRT

<213> Homo sapiens

<400> 135

Ile Asn Lys Gln Met Asn Tyr Leu Phe Phe Phe Leu Thr Thr Ser Gly
1 5 10 15

Leu Tyr Cys Leu Ser Gly Ser His Gly Ser Asn Val Lys Tyr Ile Val
20 25 30

Leu Thr Tyr Phe Asn Cys Ser Trp Ser Leu Thr Ser Pro Gly Phe Arg
35 40 45

Asp Val Leu Lys Gly Ser Gln Leu Trp Gln Val Thr Asp Ser Trp Glu
50 55 60

Met Glu Arg Thr Lys Glu Tyr Ser Ser Cys Leu Thr Phe Leu Pro Thr
65 70 75 80

Ala Asp Ile Val Gln Ala Arg Val Met Glu Glu Leu Asn Leu Leu Ala
85 90 95

Ser Gln Ala Ala Pro Ile Pro Thr Ser Gln Cys Thr Ala Pro Pro His
100 105 110

Leu Phe Ser Pro Leu Ser Leu Thr Ser Pro Phe Ile Met Ser His Lys
115 120 125

Ser Gly Thr Val Gly Ser His Tyr Asn Leu Leu Cys His Arg Asp Ser
130 135 140

Ile Phe Leu Ile Ser Asn His Val Ser

145

150

<210> 136
 <211> 118
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 136
 Phe Asn Cys Ser Trp Ser Leu Thr Ser Pro Gly Xaa Arg Asp Val Leu
 1 5 10 15
 Lys Gly Ser Gln Leu Trp Gln Val Thr Asp Ser Trp Glu Met Glu Arg
 20 25 30
 Thr Lys Glu Tyr Ser Ser Cys Leu Thr Phe Leu Pro Thr Ala Asp Ile
 35 40 45
 Val Gln Ala Arg Val Met Glu Glu Leu Asn Leu Leu Ala Ser Gln Ala
 50 55 60
 Ala Pro Ile Pro Thr Ser Gln Cys Thr Ala Pro Pro His Leu Phe Ser
 65 70 75 80
 Pro Leu Ser Leu Thr Ser Pro Phe Ile Met Ser His Lys Ser Gly Thr
 85 90 95
 Val Gly Ser His Tyr Asn Leu Leu Cys His Arg Asp Ser Ile Phe Leu
 100 105 110
 Ile Ser Asn His Val Ser
 115

<210> 137
 <211> 337
 <212> PRT
 <213> Homo sapiens

<400> 137
 Arg Thr Asn Leu Lys Glu Ala Ser Asp Ile Lys Leu Glu Pro Asn Thr
 1 5 10 15
 Leu Asn Gly Tyr Lys Ser Ser Val Thr Glu Pro Cys Pro Asp Ser Gly
 20 25 30
 Glu Gln Leu Gln Pro Ala Pro Val Leu Gln Glu Glu Glu Leu Ala His
 35 40 45
 Glu Thr Ala Gln Lys Gly Glu Ala Lys Cys His Lys Ser Asp Thr Gly
 50 55 60
 Met Ser Lys Lys Lys Arg Gln Gly Lys Leu Val Lys Gln Phe Ala Lys
 65 70 75 80
 Ile Glu Glu Ser Thr Pro Val His Asp Ser Pro Gly Lys Asp Asp Ala
 85 90 95
 Val Pro Asp Leu Met Gly Pro His Ser Asp Gln Gly Glu His Ser Gly

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<210> 138
<211> 26
<212> PRT
<213> Homo sapiens

<400> 138
Glu Ala Ala Val Ser Lys Pro Ala Gly Asn Trp Asp Val Ala Gly Asp
 1             5             10             15
Glu Arg Thr Asp Pro Ser Val Leu Pro Ala
          20          25

<210> 139
<211> 478
<212> PRT

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<213> Homo sapiens

<400> 139

Ala	Phe	Ala	Lys	Ser	Tyr	Leu	Gly	Asp	Thr	Ile	Glu	Gly	Thr	Pro	Ala
1				5					10					15	
Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr	Arg	Pro	Met	Gln	Phe
			20					25					30		
Ala	Trp	Gln	Ser	Tyr	Lys	Arg	Tyr	Ala	Met	Gly	Lys	Asn	Glu	Leu	Arg
		35					40					45			
Pro	Leu	Thr	Lys	Asp	Gly	Tyr	Glu	Gly	Asn	Met	Phe	Gly	Gly	Leu	Ser
	50					55					60				
Gly	Ala	Thr	Val	Ile	Asp	Ser	Leu	Asp	Thr	Leu	Tyr	Leu	Met	Glu	Leu
65					70					75					80
Lys	Glu	Glu	Phe	Gln	Glu	Ala	Lys	Ala	Trp	Val	Gly	Glu	Ser	Phe	His
				85					90					95	
Leu	Asn	Val	Ser	Gly	Glu	Ala	Ser	Leu	Phe	Glu	Val	Asn	Ile	Arg	Tyr
			100					105					110		
Ile	Gly	Gly	Leu	Leu	Ser	Ala	Phe	Tyr	Leu	Thr	Gly	Glu	Glu	Val	Phe
		115					120					125			
Arg	Ile	Lys	Ala	Ile	Arg	Leu	Gly	Glu	Lys	Leu	Leu	Pro	Ala	Phe	Asn
	130					135					140				
Thr	Pro	Thr	Gly	Ile	Pro	Lys	Gly	Val	Val	Ser	Phe	Lys	Ser	Gly	Asn
145					150					155					160
Trp	Gly	Trp	Ala	Thr	Ala	Gly	Ser	Ser	Ser	Ile	Leu	Ala	Glu	Phe	Gly
				165					170					175	
Ser	Leu	His	Leu	Glu	Phe	Leu	His	Leu	Thr	Glu	Leu	Ser	Gly	Asn	Gln
			180					185					190		
Val	Phe	Ala	Glu	Lys	Val	Arg	Asn	Ile	Arg	Lys	Val	Leu	Arg	Lys	Ile
		195					200					205			
Glu	Lys	Pro	Phe	Gly	Leu	Tyr	Pro	Asn	Phe	Leu	Ser	Pro	Val	Ser	Gly
	210					215					220				
Asn	Trp	Val	Gln	His	His	Val	Ser	Val	Gly	Gly	Leu	Gly	Asp	Ser	Phe
225					230					235					240
Tyr	Glu	Tyr	Leu	Ile	Lys	Ser	Trp	Leu	Met	Ser	Gly	Lys	Thr	Asp	Met
				245					250					255	
Glu	Ala	Lys	Asn	Met	Tyr	Tyr	Glu	Ala	Leu	Glu	Ala	Ile	Glu	Thr	Tyr
			260					265					270		
Leu	Leu	Asn	Val	Ser	Pro	Gly	Gly	Leu	Thr	Tyr	Ile	Ala	Glu	Trp	Arg
		275					280					285			
Gly	Gly	Ile	Leu	Asp	His	Lys	Met	Gly	His	Leu	Ala	Cys	Phe	Ser	Gly
	290					295					300				
Gly	Met	Ile	Ala	Leu	Gly	Ala	Glu	Asp	Ala	Lys	Glu	Glu	Lys	Arg	Ala
305					310					315					320
His	Tyr	Arg	Glu	Leu	Ala	Ala	Gln	Ile	Thr	Lys	Thr	Cys	His	Glu	Ser
				325					330					335	

Tyr Ala Arg Ser Asp Thr Lys Leu Gly Pro Glu Ala Phe Trp Phe Asn
340 345 350

Ser Gly Arg Glu Ala Val Ala Thr Gln Leu Ser Glu Ser Tyr Tyr Ile
355 360 365

Leu Arg Pro Glu Val Val Glu Ser Tyr Met Tyr Leu Trp Arg Gln Thr
370 375 380

His Asn Pro Ile Tyr Arg Glu Trp Gly Trp Glu Val Val Leu Ala Leu
385 390 395 400

Glu Lys Tyr Cys Arg Thr Glu Ala Gly Phe Ser Gly Ile Gln Asp Val
405 410 415

Tyr Ser Ser Thr Pro Asn His Asp Asn Lys Gln Gln Ser Phe Phe Leu
420 425 430

Ala Glu Thr Leu Lys Tyr Leu Tyr Leu Leu Phe Ser Glu Asp Asp Leu
435 440 445

Leu Ser Leu Glu Asp Trp Val Phe Asn Thr Glu Ala His Pro Leu Pro
450 455 460

Val Asn His Ser Asp Ser Ser Gly Arg Ala Trp Gly Arg His
465 470 475

<210> 140
<211> 4
<212> PRT
<213> Homo sapiens

<400> 140
Asn Val Ser Gly
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<210> 141
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<400> 141
Asn His Ser Asp
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<210> 142
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<213> Homo sapiens

<400> 142
Gly Tyr Thr Asn Cys Gly Lys Thr
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<210> 143
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<212> PRT
<213> Homo sapiens

<400> 143

Val Gly Tyr Thr Asn Cys Gly Lys Thr Thr
 1 5 10

<210> 144

<211> 12

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<213> Homo sapiens

<400> 144

Val Val Gly Tyr Thr Asn Cys Gly Lys Thr Thr Leu
 1 5 10

<210> 145

<211> 273

<212> PRT

<213> Homo sapiens

<400> 145

Arg His His Asp Arg Ser Pro Leu Ser Asp Pro Leu Leu Pro Glu Thr
 1 5 10 15
 Leu Leu Ala Pro Pro Asp Pro Pro Gly Leu Trp Pro Ala Ala Pro Leu
 20 25 30
 Ser Leu Arg Arg Arg Gly Ser Ala Val Thr His Gln Arg Ala Ser Gly
 35 40 45
 Arg Gly Trp Gly Gly Gly Ala Gly Met Ser Leu Pro Leu Arg Ala Pro
 50 55 60
 Ala Pro Arg Leu Glu Arg Arg Pro Ala Gly Pro Pro Ala Asp Val Phe
 65 70 75 80
 Leu Val Pro Lys Arg Val Val Arg Ala Ser Arg Pro Leu Arg Asp Leu
 85 90 95
 Arg Ala Ser His Arg Ala Pro Arg Thr Gln Arg Ala Trp Ser Ser Pro
 100 105 110
 Leu Thr Pro Ser Pro Ala Gly Thr His Ala Gly Ser Thr His Ser Ala
 115 120 125
 Pro Pro Pro Asn Phe Trp Glu Arg Thr Pro Gly Ser Ala Gln Pro Leu
 130 135 140
 Ala Phe Gln Lys Pro Leu Tyr Ala Tyr Leu Ile Phe Val Ile Gly Asp
 145 150 155 160
 Glu Pro Ser Leu Leu Ser Pro Phe Pro His Thr His Gln Ser Pro Leu
 165 170 175
 Ala Ile Pro Ser Pro Ser Ala Ser Pro Pro Pro Ser Cys Ala Pro Ala
 180 185 190
 Pro His Ser Pro Pro Pro Ile Gly Leu Ala Leu Ala Cys Lys Ser Arg
 195 200 205
 Arg Trp Pro Arg Ala Gln Pro Ser Arg Met Ser Pro Gly Pro Pro Leu
 210 215 220

Trp Glu Arg Arg Gln Ser Tyr Trp Pro Leu Thr Arg Pro Leu Gly Pro
 225 230 235 240
 Arg Ala Arg Gln Ala Phe Glu Ser Thr Cys Ser Ser Pro Glu Ser Arg
 245 250 255
 Pro Arg Pro Cys Leu Pro His Arg Arg Pro Gln Ser Thr Leu Pro Gln
 260 265 270
 Leu

<210> 146
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 146
 Ala Leu Trp Ala Gly Ala Gly Gly Phe Glu Gly Leu Ser Ser Thr Arg
 1 5 10 15
 Ala Gln Arg Ser Cys Gln Trp Pro Val Ala Leu Pro Pro Phe Pro Glu
 20 25 30
 Arg Gly Ser Arg Gly His Pro Gly Arg Leu Gly Pro Gly Pro Pro Ser
 35 40 45
 Ala Leu Ala Ser
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<210> 147
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 147
 Lys Gly Ile Met Leu Cys Trp Phe Cys Phe Phe Val Leu Leu Phe Phe
 1 5 10 15
 Phe Phe Phe Leu Phe Cys Phe Leu Val Met Trp Leu Lys Cys Asn Ser
 20 25 30
 Phe Phe Phe Gly Thr Tyr Phe Cys Gln Leu Lys Thr Arg Arg Ala Gln
 35 40 45
 Leu Phe Phe
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<210> 148
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 148
 Met Lys Thr Gly Gly Lys His Ser Val Ile Arg Tyr Phe Ser Asn Ile
 1 5 10 15
 Lys Thr Thr Lys Thr Asn Asp Lys Asn Val Tyr Phe Tyr Thr Pro Ala
 20 25 30

Tyr Arg Val Ser Phe Arg Val Tyr Glu Tyr Leu Asn Leu Leu Ile Ser
35 40 45

Val Leu Met Lys Ala Glu Leu Asn Arg Glu Ser
50 55

<210> 149

<211> 60

<212> PRT

<213> Homo sapiens

<400> 149

Pro Gly Lys Pro Lys Ser Ala His Phe Pro Pro Cys Cys Met Phe Ser
1 5 10 15

Val Leu Cys Leu Cys Val Cys Ala Arg Gln Arg Asp Arg Leu Phe Val
20 25 30

Lys Ser Ala Ser Cys Leu Gly Ile Phe Val Ser His Leu Ala Val Ser
35 40 45

Ser Arg Thr Ile Gln Leu Ala Phe Gln Ala Trp Arg
50 55 60

<210> 150

<211> 39

<212> PRT

<213> Homo sapiens

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<221> SITE

 $\langle 222 \rangle$ (6)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

$\langle 400 \rangle$ 150

Trp Met Ser Glu Tyr Xaa Gln Trp Val Phe Leu Ile Ser Leu Arg Ile
1 5 10 15

Cys Leu Arg Val His Tyr Gln Gly Ser Gly Thr Arg Xaa His Ser Leu
20 25 30

His Gln Phe Leu Arg Val Leu
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<210> 151

<211> 37

<212> PRT

<213> Homo sapiens

<400> 151

Arg Lys Lys Lys Ile Cys Glu Leu Tyr Ala Lys Val Leu Gly Ser Gln
1 5 10 15

Glu Ala Leu His Pro His Tyr Glu Glu Lys Asn Trp Cys Glu Glu Gln
20 25 30

Tyr Ser Gly Gly Cys
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<210> 152
<211> 33
<212> PRT
<213> Homo sapiens

<400> 152
Cys Glu Leu Tyr Ala Lys Val Leu Gly Ser Gln Glu Ala Leu His Pro
1 5 10 15
His Tyr Glu Glu Lys Asn Trp Cys Glu Glu Gln Tyr Ser Gly Gly Cys
20 25 30

Tyr

<210> 153
<211> 25
<212> PRT
<213> Homo sapiens

<400> 153
Cys Glu Leu Tyr Ala Lys Val Leu Gly Ser Gln Glu Ala Leu His Pro
1 5 10 15
Val His Tyr Glu Glu Lys Asn Trp Cys
20 25

<210> 154
<211> 109
<212> PRT
<213> Homo sapiens

<400> 154
Gln Leu Leu Leu Leu Pro Pro Lys Ala Pro Arg Asn Pro Phe Leu Pro
1 5 10 15
Cys Pro Gly Ser Arg Thr Pro Gly Tyr Ile Trp Lys Val Glu Met Trp
20 25 30
Gly Ser Cys Val Leu Glu Tyr Tyr Val Ser Pro Pro Ser Ala Val Phe
35 40 45
Ser Glu His Val Cys Cys Pro Trp Trp Glu Arg Gly His Cys Ala Val
50 55 60
Val His Arg Cys Leu Ser Phe Thr Val Gly Leu Ser Val Cys Leu Ser
65 70 75 80
Phe Leu Ser Ala Ala Gln Met Glu Asn Asn Tyr Leu Leu His Trp Arg
85 90 95
Glu Arg Lys Ser Leu Arg Ile Pro Lys Gly Thr Leu Ala
100 105

<210> 155
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 155
 Asp Glu Val Ser Ser Lys Glu Gly Ser Met Cys Pro Ser Ser Leu His
 1 5 10 15
 Leu Ala Ala Gly Ile Val Asp Ile Thr Gly Ala Leu Ala Ala Val Ser
 20 25 30
 Arg Gly Ser Lys Pro His Pro Lys Ser Lys Ala Asp
 35 40

<210> 156
 <211> 186
 <212> PRT
 <213> Homo sapiens

<400> 156
 Gly Gln Arg Gln Ala Leu Cys Pro Gln Leu Ile Leu Glu Ala Ser Arg
 1 5 10 15
 Leu Cys Glu Val Ser Thr Ser Gln His Leu Cys Ser Ser Phe Glu Ala
 20 25 30
 Ser Asn Cys Leu Gly Lys Arg Asp Arg Glu Met Glu Ala Trp Ile Arg
 35 40 45
 Ala Asn Gln Pro Ala Phe Leu Val Trp Arg Ser Thr Trp Pro Phe Pro
 50 55 60
 Trp Ala Gln Gly His Leu Lys His Cys Pro Val Lys Leu Val Leu Gly
 65 70 75 80
 Cys Pro Cys Ala Trp Arg Val Leu Lys Leu Thr Phe Gln Ile Pro Arg
 85 90 95
 Glu Gln Gly Glu Ile Ser Arg Met Ser Ile Ala Ala Lys Lys Cys Leu
 100 105 110
 Gly Gly Leu Pro Leu Leu Thr Pro His Leu Ala Ala Asp Gln His Ser
 115 120 125
 Ile Leu Asn Thr Leu Arg Ala Pro Ser Met Ala Phe Asp Arg Thr Lys
 130 135 140
 Ser Pro Gly Val Val Thr Glu Asn Arg Ser Cys Ala Val Thr Ala Met
 145 150 155 160
 Phe Pro Pro Gly Arg Gln Lys Leu Lys Ser Pro Lys Arg Thr Ser Phe
 165 170 175
 Ser Ser Ala Ala Asp Glu Trp His Arg Tyr
 180 185

<210> 157
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 157

Val Ala Ser Ile Leu Lys Ala Ala Pro Asn Arg Gln Ile Leu Pro Leu
 1 5 10 15

Phe Leu Lys His His His Val Gly Glu Pro Ser Glu Gly Trp Ala Thr
 20 25 30

Ser Gln Asp Ser Leu Leu Gly Gly Leu Gly Tyr Leu Gly Val Leu Pro
 35 40 45

His Asn Val Gln Gly Asp Ile Val Thr Lys Leu Lys Arg Leu Cys Cys
 50 55 60

Phe Ser Val Met Ser Ala Gly Ile Lys Ala Val Ser Ala Pro Cys Gly
 65 70 75 80

Ala Ser Cys Gly Ile Cys Ser Ser Pro Tyr Pro His Asn Ser Gly Ala
 85 90 95

Gln Gly Pro Gly Leu Val
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